

PROVU[®] Series Modbus[®] Register Tables

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WARNING

As is typical with most instruments, the addition of serial communications carries an inherent risk; it allows a remote operator to change the operation and/or characteristics of the device being digitally communicated with (in this case the PROVu® meter). Inappropriate communication could have serious consequences in meter or system operation.

Ultimately, it is up to the system designer to provide for the safe operation of a process. But certainly, no single event should make the difference between a safe situation and a catastrophe. Please use the appropriate level of caution when implementing serial communication.



CAUTION: If the Interlock Relay function is being used on the PROVu® meter, its proper operation can be affected by inappropriate digital communications. Please take the steps necessary to provide for reliable interlock protection.

Disclaimer

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Introduction

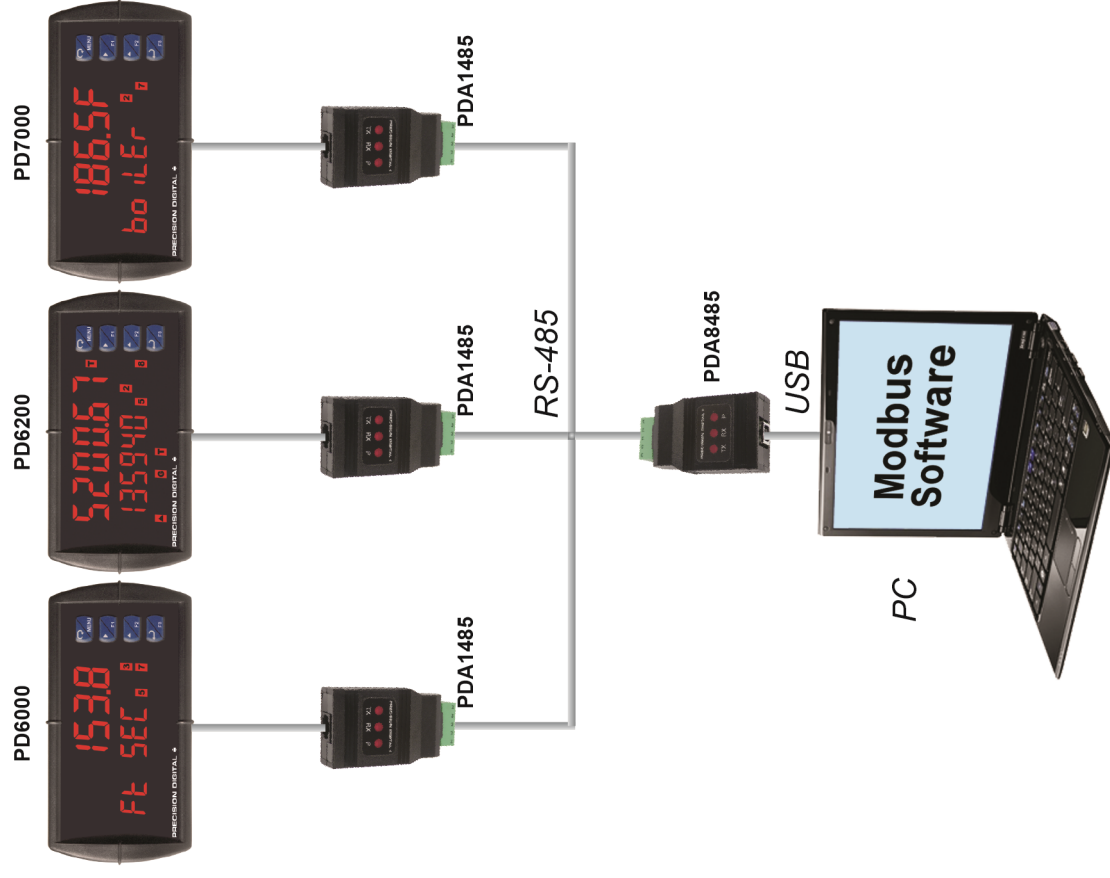
This document describes how to communicate with the PD6000-PD7000 Series of meters, with **firmware version 3.200 & greater**, using the Modbus® RTU Serial Communication Protocol. The user should be familiar with Modbus serial communication and the meters. Refer to the meter instruction manual and the serial communication adapters' manual for setup and wiring instructions.

Go to <http://www.modbus.org/> to obtain a copy of the Modbus Specifications and to find Modbus Technical Resources.

Note that although there are no specific 3x Registers, all 4x Registers are mirrored into 3x register space, and are therefore capable of being read by Modbus function 04 (Read Input Registers).

Register Overview

- 40001 – 40047: Process Value (PV), Max PV, Min PV, Total, and Grand Total in floating point and long integer formats, with interspersed relay status & digital I/O status, for block reading: Start & Stop batch, Relay acknowledge, Reset Max & Min, Reset Total, Grand Total & Batch count.
- 40051 – 40089: Manual control of relays, analog output, and digital outputs; Modbus input display settings to use the meter as a Modbus display.
- 40101 – 40125: Input selection, Decimal points, totalizer settings, display settings, and display intensity.
- 40126 – 40145: Adjust, RTD number to average, Filter & Bypass, Gate settings for pulse input, Serial communication settings, Transfer function, Number of points, Exponent, Round horizontal tank parameters, and Cutoff.
- 40171 – 40180: Passwords 1-3, Total & Grand Total Passwords.
- 40181 – 40187: Dual-scale model: PV2 settings and PV2 value, PV1 Percent.
- 40201 – 40220: Function keys & Digital I/O
- 40301 – 40372: Relays; Set & Reset points, Turn-on & Turn-off delays, Operating Mode.
- 40401 – 40413: Analog output value and setup parameters.
- 41001 – 41129: Remote Scaling for 4-20 mA input (Ch-A).
- 41201 – 41329: Remote Scaling for 4-20 mA input (Ch-B).
- 42001 – 42129: Remote Scaling for voltage input (Ch-A).
- 42201 – 42329: Remote Scaling for voltage input (Ch-B).
- 43001 – 43129: Remote Scaling for pulse input.
- 44001 – 44129: Remote Scaling for 4-20 mA input PV2 (Dual-scale, single input).
- 45001 – 45129: Remote Scaling for voltage input PV2 (Dual-scale, single input).
- 46001 – 46405: PV Channel B and additional dual-input parameters.
- 46201 – 46202: Channel C value (Math channel).
- 49901 – 49908: Product ID and Firmware Version.
- 49999: Load Factory Defaults



| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|--------------------------|-----------------------------------|-----------|---|--------------|------------------------|------------------|---|
| Number | Address (Hex) | | | | | | | |
| 40001 – 40002 | 0 – 1 (0000 – 0001) | PV/Rate Display value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the PV/Rate display value including the decimal point. Under Range = -99999, Over Range = 999999, and Open = -99999 |
| 40003 | 2 (0002) | Alarm and Relay status | Read Only | 1 = In Alarm 1 = relay energized | None | Word; Bits | 03, 04 | Read alarm status and energized/non-energized status of relays. Alm = Alarm. Rly = Relay. 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 Alm 7 6 5 4 3 2 1 Rly6 Rly5 Rly4 Rly3 Rly2 Rly1 |
| 40004 | 3 (0003) | Digital Inputs and Outputs status | Read Only | 1 = Input selected 1 = Output active | None | Word; Bits | 03, 04 | Read the state of the digital inputs and outputs. 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 DI 8 DI 7 DI 6 DI 5 DI 4 DI 3 DI 2 DI 1 DO8 DO7 DO6 DO5 DO4 DO3 DO2 DO1 |
| 40005 – 40006 | 4 – 5 (0004 – 0005) | Maximum Display value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the Maximum display value, including the decimal point, since last power up or Max Value reset. |
| 40007 – 40008 | 6 – 7 (0006 – 0007) | Minimum Display value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the Minimum display value, including the decimal point, since last power up or Min Value reset. |
| 40009 – 40010 | 8-9 (0008 – 0009) | Total value | Read Only | 0 to 999999999 | User defined | Floating point | 03, 04 | Represents the Total value, including the decimal point, since last Total reset. |
| 40011 – 40012 | 10 – 11 (000A – 000B) | Grand Total value | Read Only | 0 to 999999999 | User defined | Floating point | 03, 04 | Represents the Grand Total value, including the decimal point, since last Grand Total reset. |
| 40013 – 40014 | 12 – 13 (000C – 000D) | Total overflow value | Read Only | 0 to 999 | User defined | Floating point | 03, 04 | Represents the Total overflow value, since last Total reset. |
| 40015 – 40016 | 14 – 15 (000E – 000F) | Total non-overflow value | Read Only | 0 to 999999 | User defined | Floating point | 03, 04 | Represents the Total non-overflow value, since last Total reset. |
| 40017 – 40018 | 16 – 17 (0010 – 0011) | Grand Total overflow value | Read Only | 0 to 999 | User defined | Floating point | 03, 04 | Represents the Grand Total overflow value, since last Grand Total reset. |
| 40019 – 40020 | 18 – 19 (0012 – 0013) | Grand Total non-overflow value | Read Only | 0 to 999999 | User defined | Floating point | 03, 04 | Represents the Grand Total non-overflow value, since last Grand Total reset. |
| 40021 | 20 (0014) | PV/Rate Display value | Read Only | -99999 to 999999 | User defined | Long Hi | 03, 04 | Represents the PV/Rate display value excluding the decimal point. Decimal point setting in 40102. |
| 40022 | 21 (0015) | PV/Rate Display value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40021. |

| Number | Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|--------|---------------|--|-----------------------------------|------------|---|--------------|-------------|------------------|--|
| | Address (Hex) | | | | | | | | |
| 40023 | 22 (0016) | | Alarm and Relay status | Read Only | 1 = In Alarm 1 = relay energized | None | Word; Bits | 03, 04 | Mirror of 40003. Read alarm status and energized/non-energized status of relays. Alm = Alarm. Rly = Relay. 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 Alm Alm Alm Alm Alm Alm Alm Alm Rly8 Rly7 Rly6 Rly5 Rly4 Rly3 Rly2 Rly1 |
| 40024 | 23 (0017) | | Digital Inputs and Outputs status | Read Only | 1 = Input selected 1 = Output active | None | Word; Bits | 03, 04 | Mirror of 40004. Read the state of the digital inputs and outputs. 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 DI 8 DI 7 DI 6 DI 5 DI 4 DI 3 DI 2 DI 1 DO8 DO7 DO6 DO5 DO4 DO3 DO2 DO1 |
| 40025 | 24 (0018) | | Maximum Display value | Read Only | -99999 to 999999 | User defined | Long Hi | 03, 04 | Represents the Maximum display value, excluding the decimal point, since last power up or Max Value reset. |
| 40026 | 25 (0019) | | Maximum Display value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40025. |
| 40027 | 26 (001A) | | Minimum Display value | Read Only | -99999 to 999999 | User defined | Long Hi | 03, 04 | Represents the Minimum display value, excluding the decimal point, since last power up or Min Value reset. |
| 40028 | 27 (001B) | | Minimum Display value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40027. |
| 40029 | 28 (001C) | | Total value | Read Only | 0 to 999999999 | User defined | Long Hi | 03, 04 | Represents the Total value, excluding the decimal point, since last Total reset. Decimal point setting in 40103. |
| 40030 | 29 (001D) | | Total value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40029. |
| 40031 | 30 (001E) | | Grand Total value | Read Only | 0 to 999999999 | User defined | Long Hi | 03, 04 | Represents the Grand Total value, excluding the decimal point, since last Total reset. Decimal point setting in 40104. |
| 40032 | 31 (001F) | | Grand Total value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40031. |
| 40033 | 32 (0020) | | Total overflow value | Read Only | 0 to 999 | User defined | Integer | 03, 04 | Represents the Total overflow value, since last Total reset. |
| 40034 | 33 (0021) | | Total non-overflow value | Read Only | 0 to 999999 | User defined | Long Hi | 03, 04 | Represents the Total non-overflow value, since last Total reset. |
| 40035 | 34 (0022) | | Total non-overflow value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40034. |
| 40036 | 35 (0023) | | Grand Total overflow value | Read Only | 0 to 999 | User defined | Integer | 03, 04 | Represents the Grand Total overflow value, since last Grand Total reset. |
| 40037 | 36 (0024) | | Grand Total non-overflow value | Read Only | 0 to 999999 | User defined | Long Hi | 03, 04 | Represents the Grand Total non-overflow value, since last Grand Total reset. |
| 40038 | 37 (0025) | | Grand Total non-overflow value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40037. |
| 40039 | 38 (0026) | | Start Batch | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to start the batch process. |

| Number | Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|--------|---------------|--|--------------------------------------|---------------|-------------------|-------|-------------|-------------------|---|
| | Address (Hex) | | | | | | | | |
| 40040 | 39 (0027) | | Stop Batch | Read Write | Not applicable | None | Integer | 06, 16 | Send 1 to pause the batch process; send 1 again to stop batch process. Read Batch state: 1=Start, 2=Pause, 4=Stop, 8=Delay |
| 40041 | 40 (0028) | | Alarm Acknowledge | Write Only | Not applicable | None | Word; Bits | 06, 16 | Clear Relay <i>n</i> alarm condition. Set bit equal to 1 to acknowledge. Only has effect on relays programmed to allow manual acknowledging. Bits 0-7 mirror Bits 8-15, Alm = Alarm |
| | | | | | | | | | 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 Alm Alm Alm Alm Alm Alm Alm Alm Alm Alm Alm Alm Alm Alm Alm Alm |
| 40042 | 41 (0029) | | Reset Maximum Display value | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to reset the Maximum Display value. |
| 40043 | 42 (002A) | | Reset Minimum Display value | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to reset the Minimum Display value. |
| 40044 | 43 (002B) | | Reset Max/Min Display value | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to reset the Maximum/ Minimum Display values. |
| 40045 | 44 (002C) | | Reset Total value | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to reset the Total value. |
| 40046 | 45 (002D) | | Reset Grand Total value | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to reset the Grand Total value. |
| 40047 | 46 (002E) | | Reset Batch Count value | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to reset the Batch Count value. To read batch count use register 40152. |
| 40048 | 47 (002F) | | Reset Tare | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to reset or clear the tare. |
| 40049 | 48 (0030) | | Tare Ch-A | Read Write | Not applicable | None | Bit | 06, 16 | Set bit to 1 to tare channel A Read tare state: 0 = No Tare |
| 40050 | 49 (0031) | | Tare Ch-B | Read Write | Not applicable | None | Bit | 06, 16 | Set bit to 1 to tare channel B Read tare state: 0 = No Tare |
| 40051 | 50 (0032) | | Control Mode | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | 0 = auto, 1 = manual |
| 40052 | 51 (0033) | | Manual Control Analog Output Setting | Read Write | 0 to 23999 | µA | Integer | 03, 04, 06, 16 | Represents the Manual Control Analog Output value. Note: Register 40051 must be set to 1 = manual mode for registers 40052-40069 to take effect. |

| Number | Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|--------|---------------|--|--------------------------------|------------|-------------------|-------|-------------|------------------|--|
| | Address (Hex) | | | | | | | | |
| 40054 | 53 (0035) | | Manual Control Relay 1 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Relay 1 setting. 0 = off, 1 = on |
| 40055 | 54 (0036) | | Manual Control Relay 2 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Relay 2 setting. 0 = off, 1 = on |
| 40056 | 55 (0037) | | Manual Control Relay 3 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Relay 3 setting. 0 = off, 1 = on |
| 40057 | 56 (0038) | | Manual Control Relay 4 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Relay 4 setting. 0 = off, 1 = on |
| 40058 | 57 (0039) | | Manual Control Relay 5 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Relay 5 setting. 0 = off, 1 = on |
| 40059 | 58 (003A) | | Manual Control Relay 6 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Relay 6 setting. 0 = off, 1 = on |
| 40060 | 59 (003B) | | Manual Control Relay 7 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Relay 7 setting. 0 = off, 1 = on |
| 40061 | 60 (003C) | | Manual Control Relay 8 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Relay 8 setting. 0 = off, 1 = on |
| 40062 | 61 (003D) | | Manual Control DO 1 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Digital Output 1 setting. 0 = off, 1 = on |
| 40063 | 62 (003E) | | Manual Control DO 2 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Digital Output 2 setting. 0 = off, 1 = on |
| 40064 | 63 (003F) | | Manual Control DO 3 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Digital Output 3 setting. 0 = off, 1 = on |
| 40065 | 64 (0040) | | Manual Control DO 4 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Digital Output 4 setting. 0 = off, 1 = on |
| 40066 | 65 (0041) | | Manual Control DO 5 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Digital Output 5 setting. 0 = off, 1 = on |
| 40067 | 66 (0042) | | Manual Control DO 6 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Digital Output 6 setting. 0 = off, 1 = on |
| 40068 | 67 (0043) | | Manual Control DO 7 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Digital Output 7 setting. 0 = off, 1 = on |
| 40069 | 68 (0044) | | Manual Control DO 8 Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Manual Control Digital Output 8 setting. 0 = off, 1 = on |
| 40070 | 69 (0045) | | Modbus Big Display Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Modbus Big Display setting. 0 = display based on register 40072-40073. 1 = display based on register 40076-40081. Modbus display mode must be set to 18 in register 40117. |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|-----------------------|--------------------------------------|---------------|------------------------------|--------------|------------------------|-------------------|---|
| Number | Address (Hex) | | | | | | | |
| 40071 | 70 (0046) | Modbus Little Display Setting | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the Modbus Little Display setting. 0 = display based on register 40074-40075. 1 = display based on register 40082-40087. Modbus display mode must be set to 18 in register 40118. |
| 40072 – 40073 | 71 – 72 (0047 – 0048) | Modbus Big Display value | Read Write | -99999 to +999999 | User defined | Long Hi Long Lo | 03, 04, 06, 16 | Represents the Modbus Big display value excluding the decimal point. Register 40088 contains the decimal point. Set Register 40070 = 0, Register 40117 = 18 |
| 40074 – 40075 | 73 – 74 (0049 – 004A) | Modbus Little Display value | Read Write | -99999 to +999999 | User defined | Long Hi Long Lo | 03, 04, 06, 16 | Represents the Modbus Little display value excluding the decimal point. Register 40089 contains the decimal point. Register 40071 = 0, Register 40118 = 18 |
| 40076 | 75 (004B) | Modbus Big Display MSD value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Big Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character, see Table 8. Register 40117 = 18 Register 40070 = 1 for registers 40076-81. Register 40088 contains the decimal point. |
| 40077 | 76 (004C) | Modbus Big Display MSD-1 value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Big Display MSD-1 value. The hex value represents the allowable ASCII character. |
| 40078 | 77 (004D) | Modbus Big Display MSD-2 value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Big Display MSD-2 value. The hex value represents the allowable ASCII character. |
| 40079 | 78 (004E) | Modbus Big Display MSD-3 value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Big Display MSD-3 value. The hex value represents the allowable ASCII character. |
| 40080 | 79 (004F) | Modbus Big Display MSD-4 value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Big Display MSD-4 value. The hex value represents the allowable ASCII character. |
| 40081 | 80 (0050) | Modbus Big Display MSD-5 (LSD) value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Big Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character. |
| 40082 | 81 (0051) | Modbus Little Display MSD value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character, see Table 8. Register 40118 = 18 Register 40071 = 1 for registers 40082-87. Register 40089 contains the decimal point. |
| 40083 | 82 (0052) | Modbus Little Display MSD-1 value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-1 value. The hex value represents the allowable ASCII character. |

| Number | Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|--------|-----------------------|--|---|---------------|------------------------------|-------|------------------------|-------------------|--|
| | Address (Hex) | | | | | | | | |
| 40084 | 83 (0053) | | Modbus Little Display MSD-2 value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-2 value. The hex value represents the allowable ASCII character. |
| 40085 | 84 (0054) | | Modbus Little Display MSD-3 value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-3 value. The hex value represents the allowable ASCII character. |
| 40086 | 85 (0055) | | Modbus Little Display MSD-4 value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-4 value. The hex value represents the allowable ASCII character. |
| 40087 | 86 (0056) | | Modbus Little Display MSD-5 (LSD) value | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character. |
| 40088 | 87 (0057) | | Modbus Big Display decimal point | Read Write | 0 to 5 | None | Integer | 03, 04, 06, 16 | Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd). Register 40070 = 1 or 0 |
| 40089 | 88 (0058) | | Modbus Little Display decimal point | Read Write | 0 to 5 | None | Integer | 03, 04, 06, 16 | Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd). Register 40071 = 1 or 0 |
| 40090 | 89 (0059) | | Level Meter | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the selection for LEVEL meter with dual scale for PV1 and PV2. 0 = No, 1 = Yes |
| 40091 | 90 (005A) | | Total Mode | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the selection for Total. For SFT039 0 = No, 1 = Yes For SFT065 0 = None, 1 = Ch-A Total, 2 = Ch-B Total, 3 = Ch-A and Ch-B Total |
| 40092 | 91 (005B) | | Scale/KFactor, ICal/User Cal selector | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | For SFT039 (Single) Most significant byte is used for mA selection. Ical = 1, UserCal = 2, Scale = 4 Least significant byte is used for all other modes Ical = 1, UserCal = 2, Scale = 4, KFactor = 8 For SFT065 (Single) Most significant byte is used for Channel B selection. Ical = 1, UserCal = 2, Scale = 4, KFactor = 8 Least significant byte is used for Channel A selection Ical = 1, UserCal = 2, Scale = 4, KFactor = 8 |

| Number | Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|--------|---------------|--|----------------------------|------------|-------------------|-------|-------------|-------------------|---|
| | Address (Hex) | | | | | | | | |
| 40093 | 92 (005C) | | Meter Model | Read Only | Not applicable | None | Integer | 03, 04, 06, 16 | Hex Value LSB for non dual and SFT 065 reg map revision 4 0 = Process/Temperature 1 = Process Total 2 = Pulse Total 3 = Dual-Input Process 4 = Reserve 5 = Process Batch 6 = Pulse Batch 7 = No Module Hex Value LSB for SFT 065 reg map revision 0x20 and later 0 = Dual Process 1 = Dual Process Total 2 = Dual Pulse Total 3 = Dual Temperature 4 = Dual Process fixed VI 5 = Dual Process Batch 6 = Dual Pulse Batch 7 = No Module |
| 40094 | 93 (005D) | | Relay & Digital IO count | Read Only | Not applicable | None | Word; bytes | 03, 04, 06, 16 | Hex Value MSB is Register Map Revision Relay & Digital IO count LSByte = Relay count (4 or 8) MSByte = Digital IO count (0, 4, or 8) |
| 40095 | 94 (005E) | | Meter Output | Read Only | Not applicable | None | Bit | 03, 04, 06, 16 | Represents the meter options 0 = None, 1 = Installed Bit 0 = AOut Option, Bit 1 = F4 option, Bit 2 = Grand Total Non-Reset Password is set, Bit 3 = Meter input open indication |
| 40096 | 95 (005F) | | Miscellaneous Meter States | Read Only | Not applicable | None | Bit | 03, 04, 06, 16 | Miscellaneous meter State Indications Bit 0= Channel A or Single Channel Input Break fault Bit 0= Channel B Input Break fault |
| 40097 | 96 (0031) | | Zero Display | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to Zero display Strain gauge meter only |
| 40101 | 100 (0064) | | Input Selection | Read Write | Not applicable | None | Word; bits | 03, 04, 06, 16 | See Table 1. |
| 40102 | 101 (0065) | | PV/Rate decimal point | Read Write | 0 to 7 | None | Integer | 03, 04, 06, 16 | Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd), also selections for Temp Decimal Point using 0 = dddd, 1 = dddd.d, 6 = dddd*u, and 7 = dddd.dd, where "u" is the units (F or C). |
| 40103 | 102 (0066) | | Total decimal point | Read Write | 0 to 5 | None | Integer | 03, 04, 06, 16 | Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd). |
| 40104 | 103 (0067) | | Grand Total decimal point | Read Write | 0 to 5 | None | Integer | 03, 04, 06, 16 | Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd). |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|-------------------------|-------------------------------|---------------|------------------------------|------------------------------|------------------------|-------------------|--|
| Number | Address (Hex) | | | | | | | |
| 40105 | 104 (0068) | Total time base | Read Write | 0 to 4 | None | Integer | 03, 04, 06, 16 | 0 = sec, 1 = min, 2 = hour, 3 = day |
| 40106 – 40107 | 105 – 106 (0069 – 006A) | Total Conversion Factor | Read Write | 0.00001 to 999999 | None | Floating point | 03, 04, 06, 16 | |
| 40108 | 107 (006B) | Total Reset mode | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | 0 = auto, 1 = manual |
| 40109 | 108 (006C) | Total Reset Delay | Read Write | 0 to 9999 | 1/10 of Seconds (0 to 999.9) | Integer | 03, 04, 06, 16 | |
| 40110 | 109 (006D) | Grand Total time base | Read Write | 0 to 4 | None | Integer | 03, 04, 06, 16 | 0 = sec, 1 = min, 2 = hour, 3 = day |
| 40111 – 40112 | 110 – 111 (006E – 006F) | Grand Total Conversion Factor | Read Write | 0.00001 to 999999 | None | Floating point | 03, 04, 06, 16 | |
| 40113 | 112 (0070) | Grand Total Reset mode | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | 0 = auto, 1 = manual |
| 40114 | 113 (0071) | Grand Total Reset Delay | Read Write | 0 to 9999 | 1/10 of Seconds (0 to 999.9) | Integer | 03, 04, 06, 16 | |
| 40115 – 40116 | 114 – 115 (0072 – 0073) | Pulse K- Factor | Read Write | 0.00001 to 999999 | None | Floating point | 03, 04, 06, 16 | |
| 40117 | 116 (0074) | Big Display Setting | Read Write | 0 to 53 | None | Integer | 03, 04, 06, 16 | See Table 2. |
| 40118 | 117 (0075) | Little Display Setting | Read Write | 0 to 53 | None | Integer | 03, 04, 06, 16 | See Table 2. |
| 40119 | 118 (0076) | Units 1 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character. |
| 40120 | 119 (0077) | Units 2 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-1 value. The hex value represents the allowable ASCII character. |
| 40121 | 120 (0078) | Units 3 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-2 value. The hex value represents the allowable ASCII character. |
| 40122 | 121 (0079) | Units 4 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-3 value. The hex value represents the allowable ASCII character. |
| 40123 | 122 (007A) | Units 5 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-4 value. The hex value represents the allowable ASCII character. |
| 40124 | 123 (007B) | Units 6 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character. |
| 40125 | 124 (007C) | Display Intensity | Read Write | 1 to 8 | None | Integer | 03, 04, 06, 16 | 8 is the brightest level. Writing out of range data results in level 1 or 8. |

| Number | Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|--------|---------------|--|-----------------------------|---------------|--------------------------------------|-----------------------------|-------------|-------------------|--|
| | Address (Hex) | | | | | | | | |
| 40126 | 125 (007D) | | Adjust Value | Read Write | -500 to 500 | 1/10 of °C or °F | Integer | 03, 04, 06, 16 | Actually represents -50.0 to +50.0. Offset value is only applied to temperature inputs. If Adjust is greater than 27.7°C and the temperature units are switched to °F, it will be set to 50.0 (lower than -27.7, set to -50.0). |
| 40127 | 126 (007E) | | RTD Total Value | Read Write | 1 to 10 | None | Integer | 03, 04, 06, 16 | Value represents the number of parallel RTDs connected to the signal input. Any other value than these results in a setting of 1. |
| 40128 | 127 (007F) | | Lo Gate Setting | Read Write | 1 to 999 | None | Integer | 03, 04, 06, 16 | Actually represents 0.1 to 99.9 setting. |
| 40129 | 128 (0080) | | High Gate Setting | Read Write | 20 to 9999 | None | Integer | 03, 04, 06, 16 | Actually represents 2.0 to 999.9 setting. |
| 40130 | 129 (0081) | | Filter Setting | Read Write | 0, 2 to 199 or 202 to 250, 900 | Unit-less | Integer | 03, 04, 06, 16 | Display filtering. 0 = no filtering. 2 to 199 = old + (new - old)/Filter). For pulse input 900 = Hi-Speed, 202 to 250 = Lo-Speed where the range is 2 to 50. |
| 40131 | 130 (0082) | | Bypass Setting | Read Write | 2 to 999 | Percent of full scale or °F | Integer | 03, 04, 06, 16 | Actually represents 0.2 to 99.9. If the input steps greater than the bypass value, it will be displayed immediately, with no filtering occurring. The number represents percent of full-scale for process inputs and °F for temperature inputs. No effect if filter = 0. |
| 40132 | 131 (0083) | | Serial Address | Read Write | 1 to 247 | None | Integer | 03, 04, 06, 16 | Changes to this register are saved but don't take effect until next meter reset (Modbus command or power-up). Writing out of range data results in an address of 247. |
| 40133 | 132 (0084) | | Serial Baud Rate | Read Write | 0 to 6 | None | Integer | 03, 04, 06, 16 | 0 = 300, 1 = 600, 2 = 1200, 3 = 2400, 4 = 4800, 5 = 9600, & 6 = 19200. Changes to this register are saved but don't take effect until next meter reset (Modbus command or power-up). Writing out of range data results in a baud rate of 2400. |
| 40134 | 133 (0085) | | Serial Transmit Delay | Read Write | 0 to 199 | ms | Integer | 03, 04, 06, 16 | Transmit delay to minimize collisions on the RS-485 network. |
| 40135 | 134 (0086) | | Serial Parity | Read Write | 0 to 3 | None | Integer | 03, 04, 06, 16 | 0 = None with 1 stop bit, 1 = None with 2 stop bits, 2 = Odd, 3 = Even. Changes to this register are saved but don't take effect until next meter re-initialization (Writing 0xFF00 to 40299 or power-up). Writing out of range data results in a parity setting of Even. |
| 40136 | 135 (0087) | | Serial Byte-to-Byte Timeout | Read Write | 0 to 254 | 1/100 of Seconds | Integer | 03, 04, 06, 16 | This is the timeout between bytes of a Modbus frame. Note that a value less than the minimum value for the present baud rate cannot be saved. Minimums are: 300 baud = 0.06 sec, 600 = 0.03, 1200 = 0.02 and 0.01 for 2400 to 19200. Changes to this register are saved but don't take effect until next meter reset (Modbus command or power-up). Writing out of range data results in a timeout of 2.54 seconds. |
| 40137 | 136 (0088) | | Function Mode | Read Write | 0 to 3 | None | Integer | 03, 04, 06, 16 | 0 = Linear, 1 = Square Root, 2 = Exponent, 3 = Round Horizontal Tank |
| 40138 | 137 (0089) | | PV/Rate mA Number of Points | Read Write | 2 to 32 | None | Integer | 03, 04, 06, 16 | This register is only used when register 40137 = 0 Linear. Ch-A voltage input number of points uses register 40188. |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|-------------------------|--------------------------------|------------|----------------|-------------------|----------------|----------------|---|----------|
| Number | | | | | | | | | |
| 40139 | 138 (008A) | Exponent | Read Write | 10001 to 29999 | None | Integer | 03, 04, 06, 16 | Actually represents 1.0001 to 2.9999. Set register 40137 = 2 | |
| 40140 – 40141 | 139 – 140 (008B – 008C) | Round Horizontal Tank Diameter | Read Write | 0 to 999.999 | Inch/cm | Floating point | 03, 04, 06, 16 | Decimal point is fixed. The unit of measure is inch or cm; the volume calculation is in US gallon or liter. The display may be re-scaled to represent the volume in any engineering units. Register 40137 = 3 RHT | |
| 40142 – 40143 | 141 – 142 (008D – 008E) | Round Horizontal Tank Length | Read Write | 0 to 999.999 | Inch/cm | Floating point | 03, 04, 06, 16 | Register 40190 Round horizontal tank units 0 = inch 1 = cm | |
| 40144 – 40145 | 143 – 144 (008F – 0090) | Cutoff | Read Write | 0 to 999999 | User defined | Floating point | 03, 04, 06, 16 | Represents the cutoff value. | |
| 40146 | 145 (0091) | Batch Total Count Direction | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | 0 = count up, 1 = count down | |
| 40147 – 40148 | 146 – 147 (0092 – 0093) | Batch Total Preset | Read Write | 0 to 999999999 | User defined | Floating point | 03, 04, 06, 16 | Same as 40302 – 40303 Relay 1 set point. | |
| 40149 | 148 (0094) | Grand Total Count Direction | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | 0 = count up, 1 = count down | |
| 40150 – 40151 | 149 – 150 (0095 – 0096) | Grand Total Count Down Start | Read Write | 0 to 999999999 | User defined | Floating point | 03, 04, 06, 16 | | |
| 40152 | 151 (0097) | Batch Count | Read Only | 0 to 999999 | None | Integer | 03, 04, 06, 16 | Represents the number of completed batches. To reset the batch count use register 40047. | |
| 40153 | 152 (0098) | Dual Pulse Quad Mode | Read Write | 0 to 7 | None | Integer | 03, 04, 06, 16 | Dual Pulse Quad mode select DUAL=0, UDAB=1, UDAL=2, UDBI=3, UDABI=4, QUAD_1=5, QUAD_2=6, QUAD_4=7 | |
| 40154 | 153 (99) | Ch-A Total Units 1 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character. | |
| 40155 | 154 (9A) | Ch-A Total Units 2 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-1 value. The hex value represents the allowable ASCII character. | |
| 40156 | 155 (9B) | Ch-A Total Units 3 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-2 value. The hex value represents the allowable ASCII character. | |
| 40157 | 156 (9C) | Ch-A Total Units 4 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-3 value. The hex value represents the allowable ASCII character. | |
| 40158 | 157 (9D) | Ch-A Total Units 5 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-4 value. The hex value represents the allowable ASCII character. | |

| Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|-------------------------|--------------------------|------------|-------------------|--------------|----------------|------------------|--|
| Number | Address (Hex) | | | | | | | |
| 40159 | 158 (9E) | Ch-A Total Units 6 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character. |
| 40160 | 159 (9F) | Ch-A Grand Total Units 1 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character. |
| 40161 | 160 (A0) | Ch-A Grand Total Units 2 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-1 value. The hex value represents the allowable ASCII character. |
| 40162 | 161 (A1) | Ch-A Grand Total Units 3 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-2 value. The hex value represents the allowable ASCII character. |
| 40163 | 162 (A2) | Ch-A Grand Total Units 4 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-3 value. The hex value represents the allowable ASCII character. |
| 40164 | 163 (A3) | Ch-A Grand Total Units 5 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-4 value. The hex value represents the allowable ASCII character. |
| 40165 | 164 (A4) | Ch-A Grand Total Units 6 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character. |
| 40166 – 40167 | 166 – 167 (00A5 – 00A6) | Total Count Down Start | Read Write | 0 to 999999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40171 – 40172 | 170 – 171 (00AA-00AB) | Password 1 | Read Write | 000000 to 999999 | None | Floating point | 03, 04, 06, 16 | See Note 4. |
| 40173 – 40174 | 172 – 173 (00AC-00AD) | Password 2 | Read Write | 000000 to 999999 | None | Floating point | 03, 04, 06, 16 | See Note 4. |
| 40175 – 40176 | 174 – 175 (00AE-00AF) | Password 3 | Read Write | 000000 to 999999 | None | Floating point | 03, 04, 06, 16 | See Note 4. |
| 40177 – 40178 | 176 – 177 (00B0 – 00B1) | Total Password | Read Write | 000000 to 999999 | None | Floating point | 03, 04, 06, 16 | See Note 4. |
| 40179 – 40180 | 178 – 179 (00B2 – 00B3) | Grand Total Password | Read Write | 000000 to 999999 | None | Floating point | 03, 04, 06, 16 | See Note 4. |
| 40181 | 180 (00B4) | PV2 Decimal Point | Read Write | 0 to 5 | None | Integer | 03, 04, 06, 16 | Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd). |
| 40182 | 181 (00B5) | PV2 mA Number of Points | Read Write | 2 to 8 | None | Integer | 03, 04, 06, 16 | This register is only used when register 40137 is set to Linear. PV2 voltage input uses register 40189. |

| Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|----------------------------|----------------------------------|------------|-------------------|--------------|----------------|------------------|--|
| Number | Address (Hex) | | | | | | | |
| 40183 – 40184 | 182 – 183 (00B6 – 00B7) | PV2 Display Value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the PV2 display value including the decimal point. Under Range = -99999, Over Range = 999999, and Open = -99999 |
| 40185 | 184 (00B8) | PV2 Display value | Read Only | -99999 to 999999 | User defined | Long Hi | 03, 04 | Represents the display value excluding the decimal point. Decimal point setting in 40181. |
| 40186 | 185 (00B9) | PV2 Display value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40185. |
| 40187 | 186 (00BA) | PV1% Display value | Read Only | -100 to 100 | User defined | Integer | 03, 04 | Represents the PV1% display value. |
| 40188 | 187 (00BB) | PV/Rate Volt Number of Points | Read Write | 2 to 32 | None | Integer | 03, 04, 06, 16 | This register is only used when register 40137 = 0 Linear. Ch-A mA input number of points uses register 40138. |
| 40189 | 188 (00BC) | PV2 Volt Number of Points | Read Write | 2 to 8 | None | Integer | 03, 04, 06, 16 | This register is only used when register 40137 = 0 Linear. PV2 mA input uses register 40182. |
| 40190 | 189 (00BD) | RHT Inch/cm Selection | Read Write | 0 or 1 | Inch or cm | Integer | 03, 04, 06, 16 | Round horizontal tank engineering units 0 = inch Volume: Gallon 1 = cm Volume: Liter This register is only used when register 40137 = 3 RHT. Tank diameter and length: Registers 40140-143. |
| 40191 – 40192 | 190 – 191 (00BE – 00BF) | Programmed Tare Value | Read Write | 0 to 999999 | User defined | Floating point | 03, 04, 06, 16 | Programmed tare value. Must have Tare Programmed (40193) flag set to take effect |
| 40193 | 192 (00C0) | Tare mode | Read Write | Not applicable | None | Integer | 03, 04, 06, 16 | 0 = Tare off 1 = Use Capture Tare 2 = Use Programmed Tare |
| 40194 – 40195 | 193 – 194 (00C1 – 00C2) | Auto Zero Threshold | Read Write | 0 to 9.99 | User defined | Floating point | 03, 04, 06, 16 | Auto Zero Threshold Full scale times this value is the threshold of the input difference below which Auto Zero is calculated |
| 40196 | 195 (00C3) | Auto Zero On/Off | Read Write | 0 to 1 | None | Bit | 03, 04, 06, 16 | 0 = Auto Zero Off 1 = Auto Zero On |
| 40197 | 196 (00C4) | Strain Unipolar/Bipolar select | Read Write | 0 to 1 | None | Bit | 03, 04, 06, 16 | 0 = Unipolar 1 = Bipolar |
| 40198 | 197 (00C5) | Feet/Inch 1/8 or 1/16 resolution | Read Write | 0 to 1 | None | Bit | 03, 04, 06, 16 | 0 = 1/8 th 1 = 1/16 th |
| 40201 | 200 (00C8) | Programmable User F1 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|---------------|--|------------|------------------------------|--------------|------------------------|------------------|--------------|
| Number | Address (Hex) | | | | | | | |
| 40202 | 201 (00C9) | Programmable User F2 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40203 | 202 (00CA) | Programmable User F3 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40204 | 203 (00CB) | Programmable User F4 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40205 | 204 (00CC) | Programmable User Digital Input 1 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40206 | 205 (00CD) | Programmable User Digital Input 2 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40207 | 206 (00CE) | Programmable User Digital Input 3 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40208 | 207 (00CF) | Programmable User Digital Input 4 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40209 | 208 (00D0) | Programmable User Digital Input 5 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40210 | 209 (00D1) | Programmable User Digital Input 6 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40211 | 210 (00D2) | Programmable User Digital Input 7 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40212 | 211 (00D3) | Programmable User Digital Input 8 Setting | Read Write | 0 to 71 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40213 | 212 (00D4) | Programmable User Digital Output 1 Setting | Read Write | 0 to 38 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40214 | 213 (00D5) | Programmable User Digital Output 2 Setting | Read Write | 0 to 38 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40215 | 214 (00D6) | Programmable User Digital Output 3 Setting | Read Write | 0 to 38 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|-------------------------|--|---------------|------------------------------|--------------|------------------------|------------------|---|
| Number | Address (Hex) | | | | | | | |
| 40216 | 215 (00D7) | Programmable User Digital Output 4 Setting | Read Write | 0 to 38 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40217 | 216 (00D8) | Programmable User Digital Output 5 Setting | Read Write | 0 to 38 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40218 | 217 (00D9) | Programmable User Digital Output 6 Setting | Read Write | 0 to 38 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40219 | 218 (00DA) | Programmable User Digital Output 7 Setting | Read Write | 0 to 38 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40220 | 219 (00DB) | Programmable User Digital Output 8 Setting | Read Write | 0 to 38 | User defined | Integer | 03, 04, 06, 16 | See Table 3. |
| 40221 | 220 (00DC) | Rounding | Read Write | Not applicable | None | Integer | 03, 04, 06, 16 | Display Rounding Acceptable Index values are: 0=1, 1=2, 2=5, 3=10, 4=20, 5=50, and 6=100 |
| 40222 | 221 (00DD) | Units Code | Read Write | Not applicable | None | | 03, 04, 06, 16 | This sets the meter units as follows: 0 = LB, 1= kG, 2 = Ounce, 3 = grams, 4 = Ton, 5 = Metric Ton, 6 = Custom. Custom is specified in reg 40119 thru 40124 |
| 40223 – 40224 | 222 – 223 (00DE – 00DF) | Gross Display Value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the Gross display value including the decimal point. Under Range = -99999, Over Range = 999999 |
| 40225 – 40226 | 224 – 225 (00E0 – 00E1) | Net Display Value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the Net display value including the decimal point. Under Range = -99999, Over Range = 999999 |
| 40227 – 40228 | 226 – 227 (00E2 – 00E3) | Millivolt Display Value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the Net display value including the decimal point. Under Range = -210.00, Over Range = 210.00 |
| 40229 | 228 (00E5) | Custom Units 1 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Custom Units Little Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character. |
| 40230 | 229 (00E6) | Custom Units 2 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Custom Units Little Display MSD-1 value. The hex value represents the allowable ASCII character. |
| 40231 | 230 (00E7) | Custom Units 3 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Custom Units Little Display MSD-2 value. The hex value represents the allowable ASCII character. |
| 40232 | 231 (00E8) | Custom Units 4 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Custom Units Little Display MSD-3 value. The hex value represents the allowable ASCII character. |
| 40233 | 232 (00E9) | Custom Units 5 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Custom Units Little Display MSD-4 value. The hex value represents the allowable ASCII character. |
| 40234 | 233 (00EA) | Custom Units 6 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Custom Units Little Display MSD-5 value. The hex value represents the allowable ASCII character. |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|-------------------------|---------------------|---------------|-------------------|-----------------|----------------|-------------------|--|
| Number | | | | | | | | | |
| 40301 | | 300 (012C) | Relay 1 Mode | Read Write | Not applicable | None | Word; bits | 03, 04, 06, 16 | See Table 4 for operating modes and bit assignments. |
| 40302 – 40303 | | 301 – 302 (012D – 012E) | Relay 1 Set Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40304 – 40305 | | 303 – 304 (012F – 0130) | Relay 1 Reset Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40306 | | 305 (0131) | Relay 1 On Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40307 | | 306 (0132) | Relay 1 Off Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40308 – 40309 | | 307 – 308 (0133 – 0134) | Relay 1 Sample Time | Read Write | 0 to 59999 | 1/10 of Seconds | Floating point | 03, 04, 06, 16 | |
| 40310 | | 309 (0135) | Relay 2 Mode | Read Write | Not applicable | None | Word; bits | 03, 04, 06, 16 | See Table 4 for operating modes and bit assignments. |
| 40311 – 40312 | | 310 – 311 (0136 – 0137) | Relay 2 Set Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40313 – 40314 | | 312 – 313 (0138 – 0139) | Relay 2 Reset Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40315 | | 314 (013A) | Relay 2 On Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40316 | | 315 (013B) | Relay 2 Off Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40317 – 40318 | | 316 – 317 (013C – 013D) | Relay 2 Sample Time | Read Write | 0 to 59999 | 1/10 of Seconds | Floating point | 03, 04, 06, 16 | |
| 40319 | | 318 (013E) | Relay 3 Mode | Read Write | Not applicable | None | Word; bits | 03, 04, 06, 16 | See Table 4 for operating modes and bit assignments. |
| 40320 – 40321 | | 319 – 320 (013F – 0140) | Relay 3 Set Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40322 – 40323 | | 321 – 322 (0141 – 0142) | Relay 3 Reset Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40324 | | 323 (0143) | Relay 3 On Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40325 | | 324 (0144) | Relay 3 Off Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40326 – 40327 | | 325 – 326 (0145 – 0146) | Relay 3 Sample Time | Read Write | 0 to 59999 | 1/10 of Seconds | Floating point | 03, 04, 06, 16 | |
| 40328 | | 327 (0147) | Relay 4 Mode | Read Write | Not applicable | None | Word; bits | 03, 04, 06, 16 | See Table 4 for operating modes and bit assignments. |

| Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|----------------------------|---------------------|---------------|-------------------|-----------------|----------------|-------------------|--|
| Number | Address (Hex) | | | | | | | |
| 40329 – 40330 | 328 – 329 (0148 – 0149) | Relay 4 Set Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40331 – 40332 | 330 – 331 (014A – 014B) | Relay 4 Reset Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40333 | 332 (014C) | Relay 4 On Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40334 | 333 (014D) | Relay 4 Off Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40335 – 40336 | 334 – 335 (014E – 014F) | Relay 4 Sample Time | Read Write | 0 to 59999 | 1/10 of Seconds | Floating point | 03, 04, 06, 16 | |
| 40337 | 336 (0150) | Relay 5 Mode | Read Write | Not applicable | None | Word; bits | 03, 04, 06, 16 | See Table 4 for operating modes and bit assignments. |
| 40338 – 40339 | 337 – 338 (0151 – 0152) | Relay 5 Set Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40340 – 40341 | 339 – 340 (0153 – 0154) | Relay 5 Reset Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40342 | 341 (0155) | Relay 5 On Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40343 | 342 (0156) | Relay 5 Off Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40344 – 40345 | 343 – 344 (0157 – 0158) | Relay 5 Sample Time | Read Write | 0 to 59999 | 1/10 of Seconds | Floating point | 03, 04, 06, 16 | |
| 40346 | 345 (0159) | Relay 6 Mode | Read Write | Not applicable | None | Word; bits | 03, 04, 06, 16 | See Table 4 for operating modes and bit assignments. |
| 40347 – 40348 | 346 – 347 (015A – 015B) | Relay 6 Set Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40349 – 40350 | 348 – 349 (015C – 015D) | Relay 6 Reset Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40351 | 350 (015E) | Relay 6 On Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40352 | 351 (015F) | Relay 6 Off Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40353 – 40354 | 352 – 353 (0160 – 0161) | Relay 6 Sample Time | Read Write | 0 to 59999 | 1/10 of Seconds | Floating point | 03, 04, 06, 16 | |
| 40355 | 354 (0162) | Relay 7 Mode | Read Write | Not applicable | None | Word; bits | 03, 04, 06, 16 | See Table 4 for operating modes and bit assignments. |
| 40356 – 40357 | 355 – 356 (0163 – 0164) | Relay 7 Set Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|----------------------------|----------------------------|---------------|------------------------------|-----------------|------------------------|-------------------|--|
| Number | Address (Hex) | | | | | | | |
| 40358 – 40359 | 357 – 358 (0165 – 0166) | Relay 7 Reset Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40360 | 359 (0167) | Relay 7 On Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40361 | 360 (0168) | Relay 7 Off Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40362 – 40363 | 361 – 362 (0169 – 016A) | Relay 7 Sample Time | Read Write | 0 to 59999 | 1/10 of Seconds | Floating point | 03, 04, 06, 16 | |
| 40364 | 363 (016B) | Relay 8 Mode | Read Write | Not applicable | None | Word; bits | 03, 04, 06, 16 | See Table 4 for operating modes and bit assignments. |
| 40365 – 40366 | 364 – 365 (016C – 016D) | Relay 8 Set Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40367 – 40368 | 366 – 367 (016E – 016F) | Relay 8 Reset Point | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 40369 | 368 (0170) | Relay 8 On Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40370 | 369 (0171) | Relay 8 Off Delay | Read Write | 0 to 1999 | 1/10 of Seconds | Integer | 03, 04, 06, 16 | |
| 40371 – 40372 | 370 – 371 (0172 – 0173) | Relay 8 Sample Time | Read Write | 0 to 59999 | 1/10 of Seconds | Floating point | 03, 04, 06, 16 | |
| 40373 – 40374 | 372 – 373 (0174 – 0175) | Relay 2 Pre-close Value | Read Write | 0 to 999999 | User define | Floating point | 03, 04, 06, 16 | See Table 4 for operating modes and bit assignments. |
| 40375 – 40376 | 374 – 375 (0176 – 0177) | Relay 3 Pre-close Value | Read Write | 0 to 999999 | User define | Floating point | 03, 04, 06, 16 | |
| 40377 – 40378 | 376 – 377 (0178 – 0179) | Relay 4 Pre-close Value | Read Write | 0 to 999999 | User define | Floating point | 03, 04, 06, 16 | |
| 40379 – 40380 | 378 – 379 (017A – 017B) | Relay 5 Pre-close Value | Read Write | 0 to 999999 | User define | Floating point | 03, 04, 06, 16 | |
| 40381 – 40382 | 380 – 381 (017C – 017D) | Relay 6 Pre-close Value | Read Write | 0 to 999999 | User define | Floating point | 03, 04, 06, 16 | |
| 40383 – 40384 | 382 – 383 (017E – 017F) | Relay 7 Pre-close Value | Read Write | 0 to 999999 | User define | Floating point | 03, 04, 06, 16 | |
| 40385 – 40386 | 384 – 385 (0180 – 0181) | Relay 8 Pre-close Value | Read Write | 0 to 999999 | User define | Floating point | 03, 04, 06, 16 | |
| 40401 | 400 (0190) | Analog Output Value | Read Only | 1 to 23000 | µA | Integer | 03, 04 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|-------------------------|-------------------------------------|---------------|---------------------|-------------------|----------------|-------------------|---|----------|
| Number | | | | | | | | | |
| 40402 | 401 (0191) | Analog Output Source | Read Write | 0 to 21 | None | Integer | 03, 04, 06, 16 | See Table 5 for selection of the 4-20mA output source. This is analog channel "AOut_1" when multiple outputs are available | |
| 40403 | 402 (0192) | Analog Output Overrange value | Read Write | 1 to 23000 | µA | Integer | 03, 04, 06, 16 | | |
| 40404 | 403 (0193) | Analog Output Underrange value | Read Write | 1 to 23000 | µA | Integer | 03, 04, 06, 16 | | |
| 40405 | 404 (0194) | Analog Output Sensor Break value | Read Write | 1 to 23000 or 32000 | µA | Integer | 03, 04, 06, 16 | This is analog channel "AOut_1" when multiple outputs are available. Write 32000 to ignore sensor break | |
| 40406 | 405 (0195) | Analog Output Maximum value allowed | Read Write | 1 to 23000 | µA | Integer | 03, 04, 06, 16 | | |
| 40407 | 406 (0196) | Analog Output Minimum value allowed | Read Write | 1 to 23000 | µA | Integer | 03, 04, 06, 16 | | |
| 40408 – 40409 | 407 – 408 (0197 – 0198) | Analog Output Display Value 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | Analog Output scaling is only saved to memory after receiving the Output 2 – register 40413. | |
| 40410 – 40411 | 409 – 410 (0199 – 019A) | Analog Output Display Value 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | This is analog channel "AOut_1" when multiple outputs are available | |
| 40412 | 411 (019B) | Analog Output Output 1 | Read Write | 1 to 23000 | µA | Integer | 03, 04, 06, 16 | DO NOT interleave channels when scaling AOut | |
| 40413 | 412 (019C) | Analog Output Output 2 | Read Write | 1 to 23000 | µA | Integer | 03, 04, 06, 16 | | |
| 40418 | 417 (01A1) | Analog Output channel Number | Read Write | 0 to 2 | | Integer | 03, 04, 06, 16 | | |
| 40422 | 421 (01A5) | Analog Output Channel AOut_2 Source | Read Write | 0 to 21 | None | Integer | 03, 04, 06, 16 | See Table 5 for selection of the 4-20mA output source. This is analog channel "AOut_2" when multiple outputs are available | |
| 40423 | 422 (01A6) | Analog Output Channel AOut_3 Source | Read Write | 0 to 21 | None | Integer | 03, 04, 06, 16 | See Table 5 for selection of the 4-20mA output source. This is analog channel "AOut_3" when multiple outputs are available | |

| Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|----------------------------|---|---------------|------------------------|--------------|----------------|-------------------|---|
| Number | Address (Hex) | | | | | | | |
| 40424 | 423 (01A7) | Analog Output Channel AOut_2 Sensor Break value | Read Write | 3 to 23000 or 32000 | µA | Integer | 03, 04, 06, 16 | This is analog channel "AOut_2" when multiple outputs are available Write 32000 to ignore sensor break |
| 40425 | 424 (01A8) | Analog Output Channel AOut_3 Sensor Break value | Read Write | 3 to 23000 or 32000 | µA | Integer | 03, 04, 06, 16 | This is analog channel "AOut_3" when multiple outputs are available Write 32000 to ignore sensor break |
| 40426 – 40427 | 425 – 426 (01A9 – 01AA) | Analog Output Channel 2 Display Value 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | Channel 2 Analog Output scaling is only saved to memory after receiving the Output 2 – register 40431. |
| 40428 – 40429 | 427 – 428 (01AB – 01AC) | Analog Output Channel 2 Display Value 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | DO NOT interleave channels when scaling AOut |
| 40430 | 429 (01AD) | Analog Output Channel 2 Output 1 | Read Write | 3 to 23000 | µA | Integer | 03, 04, 06, 16 | |
| 40431 | 430 (01AE) | Analog Output Channel 2 Output 2 | Read Write | 3 to 23000 | µA | Integer | 03, 04, 06, 16 | |
| 40432 – 40433 | 431 – 432 (01AF – 01B0) | Analog Output Channel 3 Display Value 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | Channel 3 Analog Output scaling is only saved to memory after receiving the Output 2 – register 40437. |
| 40434 – 40435 | 433 – 434 (01B1 – 01B2) | Analog Output Channel 3 Display Value 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | DO NOT interleave channels when scaling AOut |
| 40436 | 435 (01B3) | Analog Output Channel 3 Output 1 | Read Write | 3 to 23000 | µA | Integer | 03, 04, 06, 16 | |
| 40437 | 436 (01B4) | Analog Output Channel 3 Output 2 | Read Write | 3 to 23000 | µA | Integer | 03, 04, 06, 16 | |
| 41001 – 41002 | 1000 – 1001 (3E8 – 3E9) | Scale mA Display 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | After all the Display and Input values have been sent, write 0xFF00 to register 41129. Otherwise an error will occur. |
| 41003 – 41004 | 1002 – 1003 (3EA – 3EB) | Scale mA Display 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41005 – 41006 | 1004 – 1005 (3EC – 3ED) | Scale mA Display 3 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|----------------------------|---------------------|---------------|---------------------|--------------|----------------|-------------------|----------|
| Number | Address (Hex) | | | | | | | |
| 41007 – 41008 | 1006 – 1007 (3EE – 3EF) | Scale mA Display 4 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41009 – 41010 | 1008 – 1009 (3F0 – 3F1) | Scale mA Display 5 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41011 – 41012 | 1010 – 1011 (3F2 – 3F3) | Scale mA Display 6 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41013 – 41014 | 1012 – 1013 (3F4 – 3F5) | Scale mA Display 7 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41015 – 41016 | 1014 – 1015 (3F6 – 3F7) | Scale mA Display 8 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41017 – 41018 | 1016 – 1017 (3F8 – 3F9) | Scale mA Display 9 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41019 – 41020 | 1018 – 1019 (3FA – 3FB) | Scale mA Display 10 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41021 – 41022 | 1020 – 1021 (3FC – 3FD) | Scale mA Display 11 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41023 – 41024 | 1022 – 1023 (3FE – 3FF) | Scale mA Display 12 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41025 – 41026 | 1024 – 1025 (400 – 401) | Scale mA Display 13 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41027 – 41028 | 1026 – 1027 (402 – 403) | Scale mA Display 14 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41029 – 41030 | 1028 – 1029 (404 – 405) | Scale mA Display 15 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41031 – 41032 | 1030 – 1031 (406 – 407) | Scale mA Display 16 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41033 – 41034 | 1032 – 1033 (408 – 409) | Scale mA Display 17 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41035 – 41036 | 1034 – 1035 (40A – 40B) | Scale mA Display 18 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41037 – 41038 | 1036 – 1037 (40C – 40D) | Scale mA Display 19 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41039 – 41040 | 1038 – 1039 (40E – 40F) | Scale mA Display 20 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41041 – 41042 | 1040 – 1041 (410 – 411) | Scale mA Display 21 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41043 – 41044 | 1042 – 1043 (412 – 413) | Scale mA Display 22 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|----------------------------|------------------------|---------------|----------------------|--------------|----------------|-------------------|----------|
| Number | | | | | | | | | |
| 41045 – 41046 | | 1044 – 1045 (414 – 415) | Scale mA Display 23 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41047 – 41048 | | 1046 – 1047 (416 – 417) | Scale mA Display 24 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41049 – 41050 | | 1048 – 1049 (418 – 419) | Scale mA Display 25 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41051 – 41052 | | 1050 – 1051 (41A – 41B) | Scale mA Display 26 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41053 – 41054 | | 1052 – 1053 (41C – 41D) | Scale mA Display 27 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41055 – 41056 | | 1054 – 1055 (41E – 41F) | Scale mA Display 28 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41057 – 41058 | | 1056 – 1057 (420 – 421) | Scale mA Display 29 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41059 – 41060 | | 1058 – 1059 (422 – 423) | Scale mA Display 30 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41061 – 41062 | | 1060 – 1061 (424 – 425) | Scale mA Display 31 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41063 – 41064 | | 1062 – 1063 (426 – 427) | Scale mA Display 32 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41065 – 41066 | | 1064 – 1065 (428 – 429) | Scale mA Input 1 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41067 – 41068 | | 1066 – 1067 (42A – 42B) | Scale mA Input 2 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41069 – 41070 | | 1068 – 1069 (42C – 42D) | Scale mA Input 3 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41071 – 41072 | | 1070 – 1071 (42E – 42F) | Scale mA Input 4 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41073 – 41074 | | 1072 – 1073 (430 – 431) | Scale mA Input 5 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41075 – 41076 | | 1074 – 1075 (432 – 433) | Scale mA Input 6 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41077 – 41078 | | 1076 – 1077 (434 – 435) | Scale mA Input 7 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41079 – 41080 | | 1078 – 1079 (436 – 437) | Scale mA Input 8 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41081 – 41082 | | 1080 – 1081 (438 – 439) | Scale mA Input 9 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|----------------------------|----------------------|---------------|----------------------|-------|----------------|-------------------|----------|
| Number | | | | | | | | | |
| 41083 – 41084 | | 1082 – 1083 (43A – 43B) | Scale mA Input 10 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41085 – 41086 | | 1084 – 1085 (43C – 43D) | Scale mA Input 11 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41087 – 41088 | | 1086 – 1087 (43E – 43F) | Scale mA Input 12 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41089 – 41090 | | 1088 – 1089 (440 – 441) | Scale mA Input 13 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41091 – 41092 | | 1090 – 1091 (442 – 443) | Scale mA Input 14 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41093 – 41094 | | 1092 – 1093 (444 – 445) | Scale mA Input 15 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41095 – 41096 | | 1094 – 1095 (446 – 447) | Scale mA Input 16 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41097 – 41098 | | 1096 – 1097 (448 – 449) | Scale mA Input 17 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41099 – 41100 | | 1098 – 1099 (44A – 44B) | Scale mA Input 18 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41101 – 41102 | | 1100 – 1101 (44C – 44D) | Scale mA Input 19 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41103 – 41104 | | 1102 – 1103 (44E – 44F) | Scale mA Input 20 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41105 – 41106 | | 1104 – 1105 (450 – 451) | Scale mA Input 21 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41107 – 41108 | | 1106 – 1107 (452 – 453) | Scale mA Input 22 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41109 – 41110 | | 1108 – 1109 (454 – 455) | Scale mA Input 23 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41111 – 41112 | | 1110 – 1111 (456 – 457) | Scale mA Input 24 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41113 – 41114 | | 1112 – 1113 (458 – 459) | Scale mA Input 25 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41115 – 41116 | | 1114 – 1115 (45A – 45B) | Scale mA Input 26 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41117 – 41118 | | 1116 – 1117 (45C – 45D) | Scale mA Input 27 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41119 – 41120 | | 1118 – 1119 (45E – 45F) | Scale mA Input 28 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|----------------------------|-----------------------------|---------------|---|--------------|---------------------|---------------------|---|
| Number | | | | | | | | | |
| 41121 – 41122 | | 1120 – 1121 (460 – 461) | Scale mA Input 29 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41123 – 41124 | | 1122 – 1123 (462 – 463) | Scale mA Input 30 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41125 – 41126 | | 1124 – 1125 (464 – 465) | Scale mA Input 31 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41127 – 41128 | | 1126 – 1127 (466 – 467) | Scale mA Input 32 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41129 | | 1128 (468) | Remote Scale mA Flag | Write Only | 0xFF00 to execute remote scaling. | None | Unsigned integer | 06, 16 | Used to remote scale the mA input. Caution! See Note 5. |
| 41201 – 41202 | | 1200 - 1201 (4B0 - 4B1) | Ch-B Scale mA Display 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | After all the Display and Input values have been sent, write 0xFF00 to register 41329. Otherwise an error will occur. |
| 41203 – 41204 | | 1202 - 1203 (4B2 - 4B3) | Ch-B Scale mA Display 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41205 – 41206 | | 1204 - 1205 (4B4 - 4B5) | Ch-B Scale mA Display 3 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41207 – 41208 | | 1206 - 1207 (4B6 - 4B7) | Ch-B Scale mA Display 4 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41209 – 41210 | | 1208 - 1209 (4B8 - 4B9) | Ch-B Scale mA Display 5 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41211 – 41212 | | 1210 - 1211 (4BA - 4BB) | Ch-B Scale mA Display 6 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41213 – 41214 | | 1212 - 1213 (4BC - 4BD) | Ch-B Scale mA Display 7 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41215 – 41216 | | 1214 - 1215 (4BE - 4BF) | Ch-B Scale mA Display 8 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41217 – 41218 | | 1216 - 1217 (4C0 - 4C1) | Ch-B Scale mA Display 9 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41219 – 41220 | | 1218 - 1219 (4C2 - 4C3) | Ch-B Scale mA Display 10 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41221 – 41222 | | 1220 - 1221 (4C4 - 4C5) | Ch-B Scale mA Display 11 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41223 – 41224 | | 1222 - 1223 (4C6 - 4C7) | Ch-B Scale mA Display 12 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41225 – 41226 | | 1224 - 1225 (4C8 - 4C9) | Ch-B Scale mA Display 13 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|----------------------------|-----------------------------|---------------|----------------------|--------------|----------------|---------------------|----------|
| Number | | | | | | | | | |
| 41227 – 41228 | | 1226 - 1227 (4CA - 4CB) | Ch-B Scale mA Display 14 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41229 – 41230 | | 1228 - 1229 (4CC - 4CD) | Ch-B Scale mA Display 15 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41231 – 41232 | | 1230 - 1231 (4CE - 4CF) | Ch-B Scale mA Display 16 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41233 – 41234 | | 1232 - 1233 (4D0 - 4D1) | Ch-B Scale mA Display 17 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41235 – 41236 | | 1234 - 1235 (4D2 - 4D3) | Ch-B Scale mA Display 18 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41237 – 41238 | | 1236 - 1237 (4D4 - 4D5) | Ch-B Scale mA Display 19 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41239 – 41240 | | 1238 - 1239 (4D6 - 4D7) | Ch-B Scale mA Display 20 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41241 – 41242 | | 1240 - 1241 (4D8 - 4D9) | Ch-B Scale mA Display 21 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41243 – 41244 | | 1242 - 1243 (4DA - 4DB) | Ch-B Scale mA Display 22 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41245 – 41246 | | 1244 - 1245 (4DC - 4DD) | Ch-B Scale mA Display 23 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41247 – 41248 | | 1246 - 1247 (4DE - 4DF) | Ch-B Scale mA Display 24 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41249 – 41250 | | 1248 - 1249 (4E0 - 4E1) | Ch-B Scale mA Display 25 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41251 – 41252 | | 1250 - 1251 (4E2 - 4E3) | Ch-B Scale mA Display 26 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41253 – 41254 | | 1252 - 1253 (4E4 - 4E5) | Ch-B Scale mA Display 27 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41255 – 41256 | | 1254 - 1255 (4E6 - 4E7) | Ch-B Scale mA Display 28 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41257 – 41258 | | 1256 - 1257 (4E8 - 4E9) | Ch-B Scale mA Display 29 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41259 – 41260 | | 1258 - 1259 (4EA - 4EB) | Ch-B Scale mA Display 30 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41261 – 41262 | | 1260 - 1261 (4EC - 4ED) | Ch-B Scale mA Display 31 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 41263 – 41264 | | 1262 - 1263 (4EE - 4EF) | Ch-B Scale mA Display 32 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|----------------------------|---------------------------|---------------|----------------------|-------|----------------|-------------------|----------|
| Number | | | | | | | | | |
| 41265 – 41266 | | 1264 - 1265 (4F0 - 4F1) | Ch-B Scale mA Input 1 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41267 – 41268 | | 1266 - 1267 (4F2 - 4F3) | Ch-B Scale mA Input 2 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41269 – 41270 | | 1268 - 1269 (4F4 - 4F5) | Ch-B Scale mA Input 3 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41271 – 41272 | | 1270 - 1271 (4F6 - 4F7) | Ch-B Scale mA Input 4 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41273 – 41274 | | 1272 - 1273 (4F8 - 4F9) | Ch-B Scale mA Input 5 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41275 – 41276 | | 1274 - 1275 (4FA - 4FB) | Ch-B Scale mA Input 6 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41277 – 41278 | | 1276 - 1277 (4FC - 4FD) | Ch-B Scale mA Input 7 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41279 – 41280 | | 1278 - 1279 (4FE - 4FF) | Ch-B Scale mA Input 8 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41281 – 41282 | | 1280 - 1281 (500 - 501) | Ch-B Scale mA Input 9 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41283 – 41284 | | 1282 - 1283 (502 - 503) | Ch-B Scale mA Input 10 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41285 – 41286 | | 1284 - 1285 (504 - 505) | Ch-B Scale mA Input 11 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41287 – 41288 | | 1286 - 1287 (506 - 507) | Ch-B Scale mA Input 12 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41289 – 41290 | | 1288 - 1289 (508 - 509) | Ch-B Scale mA Input 13 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41291 – 41292 | | 1290 - 1291 (50A - 50B) | Ch-B Scale mA Input 14 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41293 – 41294 | | 1292 - 1293 (50C - 50D) | Ch-B Scale mA Input 15 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41295 – 41296 | | 1294 - 1295 (50E - 50F) | Ch-B Scale mA Input 16 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41297 – 41298 | | 1296 - 1297 (510 - 511) | Ch-B Scale mA Input 17 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41299 – 41300 | | 1298 - 1299 (512 - 513) | Ch-B Scale mA Input 18 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41301 – 41302 | | 1300 - 1301 (514 - 515) | Ch-B Scale mA Input 19 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|----------------------------|---------------------------|---------------|-----------------------------------|--------------|------------------|-------------------|--|
| Number | | | | | | | | | |
| 41303 – 41304 | | 1302 - 1303 (516 - 517) | Ch-B Scale mA Input 20 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41305 – 41306 | | 1304 - 1305 (518 - 519) | Ch-B Scale mA Input 21 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41307 – 41308 | | 1306 - 1307 (51A - 51B) | Ch-B Scale mA Input 22 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41309 – 41310 | | 1308 - 1309 (51C - 51D) | Ch-B Scale mA Input 23 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41311 – 41312 | | 1310 - 1311 (51E - 51F) | Ch-B Scale mA Input 24 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41313 – 41314 | | 1312 - 1313 (520 - 521) | Ch-B Scale mA Input 25 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41315 – 41316 | | 1314 - 1315 (522 - 523) | Ch-B Scale mA Input 26 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41317 – 41318 | | 1316 - 1317 (524 - 525) | Ch-B Scale mA Input 27 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41319 – 41320 | | 1318 - 1319 (526 - 527) | Ch-B Scale mA Input 28 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41321 – 41322 | | 1320 - 1321 (528 - 529) | Ch-B Scale mA Input 29 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41323 – 41324 | | 1322 - 1323 (52A - 52B) | Ch-B Scale mA Input 30 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41325 – 41326 | | 1324 - 1325 (52C - 52D) | Ch-B Scale mA Input 31 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41327 – 41328 | | 1326 - 1327 (52E - 52F) | Ch-B Scale mA Input 32 | Read Write | -99.999 to 99.999 | mA | Floating point | 03, 04, 06, 16 | |
| 41329 | | 1328 (530) | Ch-B Remote Scale mA Flag | Write Only | 0xFF00 to execute remote scaling. | None | Unsigned integer | 06, 16 | Used to remote scale the mA input. Caution! See Note 5. |
| 42001 – 42002 | | 2000 – 2001 (7D0 – 7D1) | Scale Volts Display 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | After all the Display and Input values have been sent, write 0xFF00 to register 42129. |
| 42003 – 42004 | | 2002 – 2003 (7D2 – 7D3) | Scale Volts Display 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42005 – 42006 | | 2004 – 2005 (7D4 – 7D5) | Scale Volts Display 3 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42007 – 42008 | | 2006 – 2007 (7D6 – 7D7) | Scale Volts Display 4 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|----------------------------|---------------------------|---------------|---------------------|--------------|----------------|-------------------|----------|
| Number | | | | | | | | | |
| 42009 – 42010 | | 2008 – 2009 (7D8 – 7D9) | Scale Volts Display 5 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42011 – 42012 | | 2010 – 2011 (7DA – 7DB) | Scale Volts Display 6 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42013 – 42014 | | 2012 – 2013 (7DC – 7DD) | Scale Volts Display 7 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42015 – 42016 | | 2014 – 2015 (7DE – 7DF) | Scale Volts Display 8 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42017 – 42018 | | 2016 – 2017 (7E0 – 7E1) | Scale Volts Display 9 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42019 – 42020 | | 2018 – 2019 (7E2 – 7E3) | Scale Volts Display 10 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42021 – 42022 | | 2020 – 2021 (7E4 – 7E5) | Scale Volts Display 11 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42023 – 42024 | | 2022 – 2023 (7E6 – 7E7) | Scale Volts Display 12 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42025 – 42026 | | 2024 – 2025 (7E8 – 7E9) | Scale Volts Display 13 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42027 – 42028 | | 2026 – 2027 (7EA – 7EB) | Scale Volts Display 14 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42029 – 42030 | | 2028 – 2029 (7EC – 7ED) | Scale Volts Display 15 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42031 – 42032 | | 2030 – 2031 (7EE – 7EF) | Scale Volts Display 16 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42033 – 42034 | | 2032 – 2033 (7F0 – 7F1) | Scale Volts Display 17 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42035 – 42036 | | 2034 – 2035 (7F2 – 7F3) | Scale Volts Display 18 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42037 – 42038 | | 2036 – 2037 (7F4 – 7F5) | Scale Volts Display 19 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42039 – 42040 | | 2038 – 2039 (7F6 – 7F7) | Scale Volts Display 20 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42041 – 42042 | | 2040 – 2041 (7F8 – 7F9) | Scale Volts Display 21 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42043 – 42044 | | 2042 – 2043 (7FA – 7FB) | Scale Volts Display 22 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42045 – 42046 | | 2044 – 2045 (7FC – 7FD) | Scale Volts Display 23 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|----------------------------|------------------------|------------|-------------------|--------------|----------------|------------------|----------|
| Number | | | | | | | | | |
| 42047 – 42048 | | 2046 – 2047 (7FE – 7FF) | Scale Volts Display 24 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42049 – 42050 | | 2048 – 2049 (800 – 801) | Scale Volts Display 25 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42051 – 42052 | | 2050 – 2051 (802 – 803) | Scale Volts Display 26 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42053 – 42054 | | 2052 – 2053 (804 – 805) | Scale Volts Display 27 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42055 – 42056 | | 2054 – 2055 (806 – 807) | Scale Volts Display 28 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42057 – 42058 | | 2056 – 2057 (808 – 809) | Scale Volts Display 29 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42059 – 42060 | | 2058 – 2059 (80A – 80B) | Scale Volts Display 30 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42061 – 42062 | | 2060 – 2061 (80C – 80D) | Scale Volts Display 31 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42063 – 42064 | | 2062 – 2063 (80E – 80F) | Scale Volts Display 32 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42065 – 42066 | | 2064 – 2065 (810 – 811) | Scale Volts Input 1 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42067 – 42068 | | 2066 – 2067 (812 – 813) | Scale Volts Input 2 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42069 – 42070 | | 2068 – 2069 (814 – 815) | Scale Volts Input 3 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42071 – 42072 | | 2070 – 2071 (816 – 817) | Scale Volts Input 4 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42073 – 42074 | | 2072 – 2073 (818 – 819) | Scale Volts Input 5 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42075 – 42076 | | 2074 – 2075 (81A – 81B) | Scale Volts Input 6 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42077 – 42078 | | 2076 – 2077 (81C – 81D) | Scale Volts Input 7 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42079 – 42080 | | 2078 – 2079 (81E – 81F) | Scale Volts Input 8 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42081 – 42082 | | 2080 – 2081 (820 – 821) | Scale Volts Input 9 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42083 – 42084 | | 2082 – 2083 (822 – 823) | Scale Volts Input 10 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|----------------------------|----------------------|---------------|------------------------------|-------|------------------------|-------------------|----------|
| Number | Address (Hex) | | | | | | | |
| 42085 – 42086 | 2084 – 2085 (824 – 825) | Scale Volts Input 11 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42087 – 42088 | 2086 – 2087 (826 – 827) | Scale Volts Input 12 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42089 – 42090 | 2088 – 2089 (828 – 829) | Scale Volts Input 13 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42091 – 42092 | 2090 – 2091 (82A – 82B) | Scale Volts Input 14 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42093 – 42094 | 2092 – 2093 (82C – 82D) | Scale Volts Input 15 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42095 – 42096 | 2094 – 2095 (82E – 82F) | Scale Volts Input 16 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42097 – 42098 | 2096 – 2097 (830 – 831) | Scale Volts Input 17 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42099 – 42100 | 2098 – 2099 (832 – 833) | Scale Volts Input 18 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42101 – 42102 | 2100 – 2101 (834 – 835) | Scale Volts Input 19 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42103 – 42104 | 2102 – 2103 (836 – 837) | Scale Volts Input 20 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42105 – 42106 | 2104 – 2105 (838 – 839) | Scale Volts Input 21 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42107 – 42108 | 2106 – 2107 (83A – 83B) | Scale Volts Input 22 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42109 – 42110 | 2108 – 2109 (83C – 83D) | Scale Volts Input 23 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42111 – 42112 | 2110 – 2111 (83E – 83F) | Scale Volts Input 24 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42113 – 42114 | 2112 – 2113 (840 – 841) | Scale Volts Input 25 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42115 – 42116 | 2114 – 2115 (842 – 843) | Scale Volts Input 26 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42117 – 42118 | 2116 – 2117 (844 – 845) | Scale Volts Input 27 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42119 – 42120 | 2118 – 2119 (846 – 847) | Scale Volts Input 28 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42121 – 42122 | 2120 – 2121 (848 – 849) | Scale Volts Input 29 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|----------------------------|--------------------------------|---------------|---|--------------|---------------------|---------------------|---|
| Number | | | | | | | | | |
| 42123 – 42124 | | 2122 – 2123 (84A – 84B) | Scale Volts Input 30 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42125 – 42126 | | 2124 – 2125 (84C – 84D) | Scale Volts Input 31 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42127 – 42128 | | 2126 – 2127 (84E – 84F) | Scale Volts Input 32 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42129 | | 2128 (850) | Remote Scale Volts Flag | Write Only | 0xFF00 to execute remote scaling. | None | Unsigned integer | 06, 16 | Used to remote scale the Volt input. Caution! See Note 5. |
| 42201 – 42202 | | 2200 – 2201 (898 – 899) | Ch-B Scale Volts Display 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | After all the Display and Input values have been sent, write 0xFF00 to register 42329. Otherwise an error will occur. |
| 42203 – 42204 | | 2202 – 2203 (89A – 89B) | Ch-B Scale Volts Display 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42205 – 42206 | | 2204 – 2205 (89C – 89D) | Ch-B Scale Volts Display 3 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42207 – 42208 | | 2206 – 2207 (89E – 89F) | Ch-B Scale Volts Display 4 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42209 – 42210 | | 2208 – 2209 (8A0 – 8A1) | Ch-B Scale Volts Display 5 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42211 – 42212 | | 2210 – 2211 (8A2 – 8A3) | Ch-B Scale Volts Display 6 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42213 – 42214 | | 2212 – 2213 (8A4 – 8A5) | Ch-B Scale Volts Display 7 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42215 – 42216 | | 2214 – 2215 (8A6 – 8A7) | Ch-B Scale Volts Display 8 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42217 – 42218 | | 2216 – 2217 (8A8 – 8A9) | Ch-B Scale Volts Display 9 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42219 – 42220 | | 2218 – 2219 (8AA – 8AB) | Ch-B Scale Volts Display 10 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42221 – 42222 | | 2220 – 2221 (8AC – 8AD) | Ch-B Scale Volts Display 11 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42223 – 42224 | | 2222 – 2223 (8AE – 8AF) | Ch-B Scale Volts Display 12 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42225 – 42226 | | 2224 – 2225 (8B0 – 8B1) | Ch-B Scale Volts Display 13 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42227 – 42228 | | 2226 – 2227 (8B2 – 8B3) | Ch-B Scale Volts Display 14 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|----------------------------|-----------------------------|---------------|------------------------------|--------------|------------------------|-------------------|----------|
| Number | Address (Hex) | | | | | | | |
| 42229 – 42230 | 2228 - 2229 (8B4 - 8B5) | Ch-B Scale Volts Display 15 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42231 – 42232 | 2230 - 2231 (8B6 - 8B7) | Ch-B Scale Volts Display 16 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42233 – 42234 | 2232 - 2233 (8B8 - 8B9) | Ch-B Scale Volts Display 17 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42235 – 42236 | 2234 - 2235 (8BA - 8BB) | Ch-B Scale Volts Display 18 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42237 – 42238 | 2236 - 2237 (8BC - 8BD) | Ch-B Scale Volts Display 19 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42239 – 42240 | 2238 - 2239 (8BE - 8BF) | Ch-B Scale Volts Display 20 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42241 – 42242 | 2240 - 2241 (8C0 - 8C1) | Ch-B Scale Volts Display 21 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42243 – 42244 | 2242 - 2243 (8C2 - 8C3) | Ch-B Scale Volts Display 22 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42245 – 42246 | 2244 - 2245 (8C4 - 8C5) | Ch-B Scale Volts Display 23 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42247 – 42248 | 2246 - 2247 (8C6 - 8C7) | Ch-B Scale Volts Display 24 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42249 – 42250 | 2248 - 2249 (8C8 - 8C9) | Ch-B Scale Volts Display 25 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42251 – 42252 | 2250 - 2251 (8CA - 8CB) | Ch-B Scale Volts Display 26 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42253 – 42254 | 2252 - 2253 (8CC - 8CD) | Ch-B Scale Volts Display 27 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42255 – 42256 | 2254 - 2255 (8CE - 8CF) | Ch-B Scale Volts Display 28 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42257 – 42258 | 2256 - 2257 (8D0 - 8D1) | Ch-B Scale Volts Display 29 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42259 – 42260 | 2258 - 2259 (8D2 - 8D3) | Ch-B Scale Volts Display 30 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42261 – 42262 | 2260 - 2261 (8D4 - 8D5) | Ch-B Scale Volts Display 31 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42263 – 42264 | 2262 - 2263 (8D6 - 8D7) | Ch-B Scale Volts Display 32 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 42265 – 42266 | 2264 - 2265 (8D8 - 8D9) | Ch-B Scale Volts Input 1 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|----------------------------|---------------------------|---------------|------------------------------|-------|------------------------|-------------------|----------|
| Number | Address (Hex) | | | | | | | |
| 42267 – 42268 | 2266 - 2267 (8DA - 8DB) | Ch-B Scale Volts Input 2 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42269 – 42270 | 2268 - 2269 (8DC - 8DD) | Ch-B Scale Volts Input 3 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42271 – 42272 | 2270 - 2271 (8DE - 8DF) | Ch-B Scale Volts Input 4 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42273 – 42274 | 2272 - 2273 (8E0 - 8E1) | Ch-B Scale Volts Input 5 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42275 – 42276 | 2274 - 2275 (8E2 - 8E3) | Ch-B Scale Volts Input 6 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42277 – 42278 | 2276 - 2277 (8E4 - 8E5) | Ch-B Scale Volts Input 7 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42279 – 42280 | 2278 - 2279 (8E6 - 8E7) | Ch-B Scale Volts Input 8 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42281 – 42282 | 2280 - 2281 (8E8 - 8E9) | Ch-B Scale Volts Input 9 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42283 – 42284 | 2282 - 2283 (8EA - 8EB) | Ch-B Scale Volts Input 10 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42285 – 42286 | 2284 - 2285 (8EC - 8ED) | Ch-B Scale Volts Input 11 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42287 – 42288 | 2286 - 2287 (8EE - 8EF) | Ch-B Scale Volts Input 12 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42289 – 42290 | 2288 - 2289 (8F0 - 8F1) | Ch-B Scale Volts Input 13 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42291 – 42292 | 2290 - 2291 (8F2 - 8F3) | Ch-B Scale Volts Input 14 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42293 – 42294 | 2292 - 2293 (8F4 - 8F5) | Ch-B Scale Volts Input 15 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42295 – 42296 | 2294 - 2295 (8F6 - 8F7) | Ch-B Scale Volts Input 16 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42297 – 42298 | 2296 - 2297 (8F8 - 8F9) | Ch-B Scale Volts Input 17 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42299 – 42300 | 2298 - 2299 (8FA - 8FB) | Ch-B Scale Volts Input 18 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42301 – 42302 | 2300 - 2301 (8FC - 8FD) | Ch-B Scale Volts Input 19 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42303 – 42304 | 2302 - 2303 (8FE - 8FF) | Ch-B Scale Volts Input 20 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|----------------------------|------------------------------|---------------|--------------------------------------|--------------|------------------------|-------------------|--|
| Number | Address (Hex) | | | | | | | |
| 42305 – 42306 | 2304 - 2305 (900 - 901) | Ch-B Scale Volts Input 21 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42307 – 42308 | 2306 - 2307 (902 - 903) | Ch-B Scale Volts Input 22 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42309 – 42310 | 2308 - 2309 (904 - 905) | Ch-B Scale Volts Input 23 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42311 – 42312 | 2310 - 2311 (906 - 907) | Ch-B Scale Volts Input 24 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42313 – 42314 | 2312 - 2313 (908 - 909) | Ch-B Scale Volts Input 25 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42315 – 42316 | 2314 - 2315 (90A - 90B) | Ch-B Scale Volts Input 26 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42317 – 42318 | 2316 - 2317 (90C - 90D) | Ch-B Scale Volts Input 27 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42319 – 42320 | 2318 - 2319 (90E - 90F) | Ch-B Scale Volts Input 28 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42321 – 42322 | 2320 - 2321 (910 - 911) | Ch-B Scale Volts Input 29 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42323 – 42324 | 2322 - 2323 (912 - 913) | Ch-B Scale Volts Input 30 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42325 – 42326 | 2324 - 2325 (914 - 915) | Ch-B Scale Volts Input 31 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42327 – 42328 | 2326 - 2327 (916 - 917) | Ch-B Scale Volts Input 32 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | |
| 42329 | 2328 (918) | Ch-B Remote Scale Volts Flag | Write Only | 0xFF00 to execute remote scaling. | None | Unsigned integer | 06, 16 | Used to remote scale the Volt input. Caution! See Note 5. |
| 43001 – 43002 | 3000 – 3001 (BB8 – BB9) | Scale Pulse Display 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | After all the Display and Input values have been sent, write 0xFF00 to register 43129. |
| 43003 – 43004 | 3002 – 3003 (BBA – BBB) | Scale Pulse Display 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43005 – 43006 | 3004 – 3005 (BBC – BBD) | Scale Pulse Display 3 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43007 – 43008 | 3006 – 3007 (BBE – BBF) | Scale Pulse Display 4 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43009 – 43010 | 3008 – 3009 (BC0 – BC1) | Scale Pulse Display 5 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|----------------------------|------------------------|---------------|------------------------------|--------------|------------------------|-------------------|----------|
| Number | Address (Hex) | | | | | | | |
| 43011 – 43012 | 3010 – 3011 (BC2 – BC3) | Scale Pulse Display 6 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43013 – 43014 | 3012 – 3013 (BC4 – BC5) | Scale Pulse Display 7 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43015 – 43016 | 3014 – 3015 (BC6 – BC7) | Scale Pulse Display 8 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43017 – 43018 | 3016 – 3017 (BC8 – BC9) | Scale Pulse Display 9 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43019 – 43020 | 3018 – 3019 (BCA – BCB) | Scale Pulse Display 10 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43021 – 43022 | 3020 – 3021 (BCC – BCD) | Scale Pulse Display 11 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43023 – 43024 | 3022 – 3023 (BCE – BCF) | Scale Pulse Display 12 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43025 – 43026 | 3024 – 3025 (BD0 – BD1) | Scale Pulse Display 13 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43027 – 43028 | 3026 – 3027 (BD2 – BD3) | Scale Pulse Display 14 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43029 – 43030 | 3028 – 3029 (BD4 – BD5) | Scale Pulse Display 15 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43031 – 43032 | 3030 – 3031 (BD6 – BD7) | Scale Pulse Display 16 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43033 – 43034 | 3032 – 3033 (BD8 – BD9) | Scale Pulse Display 17 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43035 – 43036 | 3034 – 3035 (BDA – BDB) | Scale Pulse Display 18 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43037 – 43038 | 3036 – 3037 (BDC – BDD) | Scale Pulse Display 19 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43039 – 43040 | 3038 – 3039 (BDE – BDF) | Scale Pulse Display 20 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43041 – 43042 | 3040 – 3041 (BE0 – BE1) | Scale Pulse Display 21 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43043 – 43044 | 3042 – 3043 (BE2 – BE3) | Scale Pulse Display 22 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43045 – 43046 | 3044 – 3045 (BE4 – BE5) | Scale Pulse Display 23 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43047 – 43048 | 3046 – 3047 (BE6 – BE7) | Scale Pulse Display 24 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|-------------------------|------------------------|------------|------------------------------|--------------|------------------------|------------------|----------|
| Number | Address (Hex) | | | | | | | |
| 43049 – 43050 | 3048 – 3049 (BE8 – BE9) | Scale Pulse Display 25 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43051 – 43052 | 3050 – 3051 (BEA – BEB) | Scale Pulse Display 26 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43053 – 43054 | 3052 – 3053 (BEC – BED) | Scale Pulse Display 27 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43055 – 43056 | 3054 – 3055 (BEE – BEF) | Scale Pulse Display 28 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43057 – 43058 | 3056 – 3057 (BF0 – BF1) | Scale Pulse Display 29 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43059 – 43060 | 3058 – 3059 (BF2 – BF3) | Scale Pulse Display 30 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43061 – 43062 | 3060 – 3061 (BF4 – BF5) | Scale Pulse Display 31 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43063 – 43064 | 3062 – 3063 (BF6 – BF7) | Scale Pulse Display 32 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43065 – 43066 | 3064 – 3065 (BF8 – BF9) | Scale Pulse Input 1 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43067 – 43068 | 3066 – 3067 (BFA – BFB) | Scale Pulse Input 2 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43069 – 43070 | 3068 – 3069 (BFC – BFD) | Scale Pulse Input 3 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43071 – 43072 | 3070 – 3071 (BFE – BFF) | Scale Pulse Input 4 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43073 – 43074 | 3072 – 3073 (C00 – C01) | Scale Pulse Input 5 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43075 – 43076 | 3074 – 3075 (C02 – C03) | Scale Pulse Input 6 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43077 – 43078 | 3076 – 3077 (C04 – C05) | Scale Pulse Input 7 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43079 – 43080 | 3078 – 3079 (C06 – C07) | Scale Pulse Input 8 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43081 – 43082 | 3080 – 3081 (C08 – C09) | Scale Pulse Input 9 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43083 – 43084 | 3082 – 3083 (C0A – C0B) | Scale Pulse Input 10 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43085 – 43086 | 3084 – 3085 (C0C – C0D) | Scale Pulse Input 11 | Read Write | 0.0 to 999999.9 | Hz | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|----------------------------|----------------------|---------------|------------------------------|-------|------------------------|-------------------|----------|
| Number | Address (Hex) | | | | | | | |
| 43087 – 43088 | 3086 – 3087 (C0E – C0F) | Scale Pulse Input 12 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43089 – 43090 | 3088 – 3089 (C10 – C11) | Scale Pulse Input 13 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43091 – 43092 | 3090 – 3091 (C12 – C13) | Scale Pulse Input 14 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43093 – 43094 | 3092 – 3093 (C14 – C15) | Scale Pulse Input 15 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43095 – 43096 | 3094 – 3095 (C16 – C17) | Scale Pulse Input 16 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43097 – 43098 | 3096 – 3097 (C18 – C19) | Scale Pulse Input 17 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43099 – 43100 | 3098 – 3099 (C1A – C1B) | Scale Pulse Input 18 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43101 – 43102 | 3100 – 3101 (C1C – C1D) | Scale Pulse Input 19 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43103 – 43104 | 3102 – 3103 (C1E – C1F) | Scale Pulse Input 20 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43105 – 43106 | 3104 – 3105 (C20 – C21) | Scale Pulse Input 21 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43107 – 43108 | 3106 – 3107 (C22 – C23) | Scale Pulse Input 22 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43109 – 43110 | 3108 – 3109 (C24 – C25) | Scale Pulse Input 23 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43111 – 43112 | 3110 – 3111 (C26 – C27) | Scale Pulse Input 24 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43113 – 43114 | 3112 – 3113 (C28 – C29) | Scale Pulse Input 25 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43115 – 43116 | 3114 – 3115 (C2A – C2B) | Scale Pulse Input 26 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43117 – 43118 | 3116 – 3117 (C2C – C2D) | Scale Pulse Input 27 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43119 – 43120 | 3118 – 3119 (C2E – C2F) | Scale Pulse Input 28 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43121 – 43122 | 3120 – 3121 (C30 – C31) | Scale Pulse Input 29 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43123 – 43124 | 3122 – 3123 (C32 – C33) | Scale Pulse Input 30 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|----------------------------|-----------------------------|---------------|-----------------------------------|--------------|------------------------|-------------------|--|
| Number | Address (Hex) | | | | | | | |
| 43125 – 43126 | 3124 – 3125 (C34 – C35) | Scale Pulse Input 31 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43127 – 43128 | 3126 – 3127 (C36 – C37) | Scale Pulse Input 32 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43129 | 3128 (C38) | Remote Scale Pulse Flag | Write Only | 0xFF00 to execute remote scaling. | None | Unsigned integer | 06, 16 | Used to remote scale the Pulse input. Caution! See Note 5. |
| 43201 – 43202 | 3200 – 3201 (C80 – C81) | Ch-B Scale Pulse Display 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | After all the Display and Input values have been sent, write 0xFF00 to register 43329. |
| 43203 – 43204 | 3202 – 3203 (C82 – C83) | Ch-B Scale Pulse Display 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43205 – 43206 | 3204 – 3205 (C84 – C85) | Ch-B Scale Pulse Display 3 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43207 – 43208 | 3206 – 3207 (C86 – C87) | Ch-B Scale Pulse Display 4 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43209 – 43210 | 3208 – 3209 (C88 – C89) | Ch-B Scale Pulse Display 5 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43211 – 43212 | 3210 – 3211 (C8A – C8B) | Ch-B Scale Pulse Display 6 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43213 – 43214 | 3212 – 3213 (C8C – C8D) | Ch-B Scale Pulse Display 7 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43215 – 43216 | 3214 – 3215 (C8E – C8F) | Ch-B Scale Pulse Display 8 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43217 – 43218 | 3216 – 3217 (C90 – C91) | Ch-B Scale Pulse Display 9 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43219 – 43220 | 3218 – 3219 (C92 – C93) | Ch-B Scale Pulse Display 10 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43221 – 43222 | 3220 – 3221 (C94 – C95) | Ch-B Scale Pulse Display 11 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43223 – 43224 | 3222 – 3223 (C96 – C97) | Ch-B Scale Pulse Display 12 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43225 – 43226 | 3224 – 3225 (C98 – C99) | Ch-B Scale Pulse Display 13 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43227 – 43228 | 3226 – 3227 (C9A – C9B) | Ch-B Scale Pulse Display 14 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43229 – 43230 | 3228 – 3229 (C9C – C9D) | Ch-B Scale Pulse Display 15 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|----------------------------|-----------------------------|---------------|------------------------------|--------------|------------------------|-------------------|----------|
| Number | Address (Hex) | | | | | | | |
| 43231 – 43232 | 3230 - 3231 (C9E - C9F) | Ch-B Scale Pulse Display 16 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43233 – 43234 | 3232 - 3233 (CA0 - CA1) | Ch-B Scale Pulse Display 17 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43235 – 43236 | 3234 - 3235 (CA2 - CA3) | Ch-B Scale Pulse Display 18 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43237 – 43238 | 3236 - 3237 (CA4 - CA5) | Ch-B Scale Pulse Display 19 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43239 – 43240 | 3238 - 3239 (CA6 - CA7) | Ch-B Scale Pulse Display 20 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43241 – 43242 | 3240 - 3241 (CA8 - CA9) | Ch-B Scale Pulse Display 21 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43243 – 43244 | 3242 - 3243 (CAA - CAB) | Ch-B Scale Pulse Display 22 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43245 – 43246 | 3244 - 3245 (CAC - CAD) | Ch-B Scale Pulse Display 23 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43247 – 43248 | 3246 - 3247 (CAE - CAF) | Ch-B Scale Pulse Display 24 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43249 – 43250 | 3248 - 3249 (CB0 - CB1) | Ch-B Scale Pulse Display 25 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43251 – 43252 | 3250 - 3251 (CB2 - CB3) | Ch-B Scale Pulse Display 26 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43253 – 43254 | 3252 - 3253 (CB4 - CB5) | Ch-B Scale Pulse Display 27 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43255 – 43256 | 3254 - 3255 (CB6 - CB7) | Ch-B Scale Pulse Display 28 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43257 – 43258 | 3256 - 3257 (CB8 - CB9) | Ch-B Scale Pulse Display 29 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43259 – 43260 | 3258 - 3259 (CBA - CBB) | Ch-B Scale Pulse Display 30 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43261 – 43262 | 3260 - 3261 (CBC - CBD) | Ch-B Scale Pulse Display 31 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43263 – 43264 | 3262 - 3263 (CBE - CBF) | Ch-B Scale Pulse Display 32 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 43265 – 43266 | 3264 - 3265 (CC0 - CC1) | Ch-B Scale Pulse Input 1 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43267 – 43268 | 3266 - 3267 (CC2 - CC3) | Ch-B Scale Pulse Input 2 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|-------------------------|---------------------------|---------------|------------------------------|-------|------------------------|-------------------|----------|
| Number | Address (Hex) | | | | | | | |
| 43269 – 43270 | 3268 - 3269 (CC4 - CC5) | Ch-B Scale Pulse Input 3 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43271 – 43272 | 3270 - 3271 (CC6 - CC7) | Ch-B Scale Pulse Input 4 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43273 – 43274 | 3272 - 3273 (CC8 - CC9) | Ch-B Scale Pulse Input 5 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43275 – 43276 | 3274 - 3275 (CCA - CCB) | Ch-B Scale Pulse Input 6 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43277 – 43278 | 3276 - 3277 (CCC - CCD) | Ch-B Scale Pulse Input 7 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43279 – 43280 | 3278 - 3279 (CCE - CCF) | Ch-B Scale Pulse Input 8 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43281 – 43282 | 3280 - 3281 (CDD - CDE) | Ch-B Scale Pulse Input 9 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43283 – 43284 | 3282 - 3283 (CDF - CDF) | Ch-B Scale Pulse Input 10 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43285 – 43286 | 3284 - 3285 (CE0 - CE1) | Ch-B Scale Pulse Input 11 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43287 – 43288 | 3286 - 3287 (CE2 - CE3) | Ch-B Scale Pulse Input 12 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43289 – 43290 | 3288 - 3289 (CE4 - CE5) | Ch-B Scale Pulse Input 13 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43291 – 43292 | 3290 - 3291 (CE6 - CE7) | Ch-B Scale Pulse Input 14 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43293 – 43294 | 3292 - 3293 (CE8 - CE9) | Ch-B Scale Pulse Input 15 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43295 – 43296 | 3294 - 3295 (CEA - CEB) | Ch-B Scale Pulse Input 16 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43297 – 43298 | 3296 - 3297 (CEC - CED) | Ch-B Scale Pulse Input 17 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43299 – 43300 | 3298 - 3299 (CEE - CEF) | Ch-B Scale Pulse Input 18 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43301 – 43302 | 3300 - 3301 (CEG - CEH) | Ch-B Scale Pulse Input 19 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43303 – 43304 | 3302 - 3303 (CEI - CEJ) | Ch-B Scale Pulse Input 20 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43305 – 43306 | 3304 - 3305 (CEK - CEL) | Ch-B Scale Pulse Input 21 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|----------------------------|------------------------------|---------------|-----------------------------------|--------------|------------------------|-------------------|--|
| Number | Address (Hex) | | | | | | | |
| 43307 – 43308 | 3306 - 3307 (CEA - CEB) | Ch-B Scale Pulse Input 22 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43309 – 43310 | 3308 - 3309 (CEC - CED) | Ch-B Scale Pulse Input 23 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43311 – 43312 | 3310 - 3311 (CEE - CEF) | Ch-B Scale Pulse Input 24 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43313 – 43314 | 3312 - 3313 (CF0 - CF1) | Ch-B Scale Pulse Input 25 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43315 – 43316 | 3314 - 3315 (CF2 - CF3) | Ch-B Scale Pulse Input 26 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43317 – 43318 | 3316 - 3317 (CF4 - CF5) | Ch-B Scale Pulse Input 27 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43319 – 43320 | 3318 - 3319 (CF6 - CF7) | Ch-B Scale Pulse Input 28 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43321 – 43322 | 3320 - 3321 (CF8 - CF9) | Ch-B Scale Pulse Input 29 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43323 – 43324 | 3322 - 3323 (CFA - CFB) | Ch-B Scale Pulse Input 30 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43325 – 43326 | 3324 - 3325 (CFC - CFD) | Ch-B Scale Pulse Input 31 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43327 – 43328 | 3326 - 3327 (CFE - CFF) | Ch-B Scale Pulse Input 32 | Read Write | 0.0 to 99999.9 | Hz | Floating point | 03, 04, 06, 16 | |
| 43329 | 3328 (D00) | Ch-B Remote Scale Pulse Flag | Write Only | 0xFF00 to execute remote scaling. | None | Unsigned integer | 06, 16 | Used to remote scale the Pulse input. Caution! See Note 5. |
| 44001 – 44002 | 4000 – 4001 (FA0 – FA1) | Scale PV2 mA Display 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | After all the Display and Input values have been sent, write 0xFF00 to register 44129. |
| 44003 – 44004 | 4002 – 4003 (FA2 – FA3) | Scale PV2 mA Display 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 44005 – 44006 | 4004 – 4005 (FA4 – FA5) | Scale PV2 mA Display 3 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 44007 – 44008 | 4006 – 4007 (FA6 – FA7) | Scale PV2 mA Display 4 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 44009 – 44010 | 4008 – 4009 (FA8 – FA9) | Scale PV2 mA Display 5 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 44011 – 44012 | 4010 – 4011 (FAA – FAB) | Scale PV2 mA Display 6 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|---------------------------|---------------------------|------------|-----------------------------------|--------------|------------------|------------------|--|
| Number | | | | | | | | | |
| 44013 – 44014 | | 4012 – 4013 (FAC – FAD) | Scale PV2 mA Display 7 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 44015 – 44016 | | 4014 – 4015 (FAE – FAF) | Scale PV2 mA Display 8 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 44017 – 44018 | | 4016 – 4017 (FB0 – FB1) | Scale PV2 mA Input 1 | Read Write | -99,999 to 99,999 | mA | Floating point | 03, 04, 06, 16 | |
| 44019 – 44020 | | 4018 – 4019 (FB2 – FB3) | Scale PV2 mA Input 2 | Read Write | -99,999 to 99,999 | mA | Floating point | 03, 04, 06, 16 | |
| 44021 – 44022 | | 4020 – 4021 (FB4 – FB5) | Scale PV2 mA Input 3 | Read Write | -99,999 to 99,999 | mA | Floating point | 03, 04, 06, 16 | |
| 44023 – 44024 | | 4022 – 4023 (FB6 – FB7) | Scale PV2 mA Input 4 | Read Write | -99,999 to 99,999 | mA | Floating point | 03, 04, 06, 16 | |
| 44025 – 44026 | | 4024 – 4025 (FB8 – FB9) | Scale PV2 mA Input 5 | Read Write | -99,999 to 99,999 | mA | Floating point | 03, 04, 06, 16 | |
| 44027 – 44028 | | 4026 – 4027 (FBA – FBB) | Scale PV2 mA Input 6 | Read Write | -99,999 to 99,999 | mA | Floating point | 03, 04, 06, 16 | |
| 44029 – 44030 | | 4028 – 4029 (FBC – FBD) | Scale PV2 mA Input 7 | Read Write | -99,999 to 99,999 | mA | Floating point | 03, 04, 06, 16 | |
| 44031 – 44032 | | 4030 – 4031 (FBE – FBF) | Scale PV2 mA Input 8 | Read Write | -99,999 to 99,999 | mA | Floating point | 03, 04, 06, 16 | |
| 44129 | | 4128 (1020) | Remote Scale PV2 mA Flag | Write Only | 0xFF00 to execute remote scaling. | None | Unsigned integer | 06, 16 | Used to remote scale the PV2 mA input. Caution! See Note 5. |
| 45001 – 45002 | | 5000 – 5001 (1388 – 1389) | Scale PV2 Volts Display 1 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | After all the Display and Input values have been sent, write 0xFF00 to register 45129. |
| 45003 – 45004 | | 5002 – 5003 (138A – 138B) | Scale PV2 Volts Display 2 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 45005 – 45006 | | 5004 – 5005 (138C – 138D) | Scale PV2 Volts Display 3 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 45007 – 45008 | | 5006 – 5007 (138E – 138F) | Scale PV2 Volts Display 4 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 45009 – 45010 | | 5008 – 5009 (1390 – 1391) | Scale PV2 Volts Display 5 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 45011 – 45012 | | 5010 – 5011 (1392 – 1393) | Scale PV2 Volts Display 6 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 45013 – 45014 | | 5012 – 5013 (1394 – 1395) | Scale PV2 Volts Display 7 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|------------------------------|-----------------------------------|---------------|---|-------------------|------------------|-------------------|---|----------|
| Number | | | | | | | | | |
| 45015 – 45016 | 5014 – 5015 (1396 – 1397) | Scale PV2 Volts Display 8 | Read Write | -99999 to 999999 | User defined | Floating point | 03, 04, 06, 16 | | |
| 45017 – 45018 | 5016 – 5017 (1398 – 1399) | Scale PV2 Volts Input 1 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | | |
| 45019 – 45020 | 5018 – 5019 (139A – 139B) | Scale PV2 Volts Input 2 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | | |
| 45021 – 45022 | 5020 – 5021 (139C – 139D) | Scale PV2 Volts Input 3 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | | |
| 45023 – 45024 | 5022 – 5023 (139E – 139F) | Scale PV2 Volts Input 4 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | | |
| 45025 – 45026 | 5024 – 5025 (13A0 – 13A1) | Scale PV2 Volts Input 5 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | | |
| 45027 – 45028 | 5026 – 5027 (13A2 – 13A3) | Scale PV2 Volts Input 6 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | | |
| 45029 – 45030 | 5028 – 5029 (13A4 – 13A5) | Scale PV2 Volts Input 7 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | | |
| 45031 – 45032 | 5030 – 5031 (13A6 – 13A7) | Scale PV2 Volts Input 8 | Read Write | -99.999 to 99.999 | Volt | Floating point | 03, 04, 06, 16 | | |
| 45129 | 5128 (1408) | Remote Scale PV2 Volts Flag | Write Only | 0xFF00 to execute remote scaling. | None | Unsigned integer | 06, 16 | Used to remote scale the PV2 Volts input. Caution! See Note 5. | |
| 46001-46002 | 6000 - 6001 (1770 - 1771) | Ch-B Display Value | Read Only | -99.999 to 99.999 | User defined | Floating point | 03, 04, 06, 16 | | |
| 46003 | 6002 (1772) | Alarm and Relay status | Read Only | 1 = In Alarm 1 = relay energized | None | Word; Bits | 03, 04 | Mirror of 40003. Read alarm status and energized/non-energized status of relays. Alm = Alarm. Rly = Relay. 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 Alm Alm Alm Alm Alm Alm Rly8 Rly7 Rly6 Rly5 Rly4 Rly3 Rly2 Rly1 | |
| 46004 | 6003 (1773) | Digital Inputs and Outputs status | Read Only | 1 = Input selected 1 = Output active | None | Word; Bits | 03, 04 | Mirror of 40004. Read the state of the digital inputs and outputs. 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 DI 8 DI 7 DI 6 DI 5 DI 4 DI 3 DI 2 DI 1 DO8 DO7 DO6 DO5 DO4 DO3 DO2 DO1 | |
| 46005 – 46006 | 6004 - 6005 (1774 - 1775) | Ch-B Maximum Display value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the Maximum display value, including the decimal point, since last power up or Max Value reset. | |

| Number | Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|------------------------------|--|--|-----------|--|--------------|----------------|------------------|--|
| | Address (Hex) | | | | | | | | |
| 46007 – 46008 | 6006 - 6007 (1776 - 1777) | | Ch-B Minimum Display value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the Minimum display value, including the decimal point, since last power up or Min Value reset. |
| 46009 – 46010 | 6008 - 6009 (1778 - 1779) | | Ch-B Total value | Read Only | 0 to 999999999 | User defined | Floating point | 03, 04 | Represents the Total value, including the decimal point, since last Total reset. |
| 46011 – 46012 | 6010 - 6011 (177A - 177B) | | Ch-B Grand Total value | Read Only | 0 to 999999999 | User defined | Floating point | 03, 04 | Represents the Grand Total value, including the decimal point, since last Grand Total reset. |
| 46013 – 46014 | 6012 - 6013 (177C - 177D) | | Ch-B Total overflow value | Read Only | 0 to 999 | User defined | Floating point | 03, 04 | Represents the Total overflow value, since last Total reset. |
| 46015 – 46016 | 6014 - 6015 (177E - 177F) | | Ch-B Total non- overflow value | Read Only | 0 to 999999 | User defined | Floating point | 03, 04 | Represents the Total non-overflow value, since last Total reset. |
| 46017 – 46018 | 6016 - 6017 (1780 - 1781) | | Ch-B Grand Total overflow value | Read Only | 0 to 999 | User defined | Floating point | 03, 04 | Represents the Grand Total overflow value, since last Grand Total reset. |
| 46019 – 46020 | 6018 - 6019 (1782 - 1783) | | Ch-B Grand Total non- overflow value | Read Only | 0 to 999999 | User defined | Floating point | 03, 04 | Represents the Grand Total non-overflow value, since last Grand Total reset. |
| 46021 | 6020 (1784) | | Ch-B PV/Rate Display value | Read Only | -99999 to 999999 | User defined | Long Hi | 03, 04 | Represents the PV/Rate display value excluding the decimal point. Decimal point setting in 46102. |
| 46022 | 6021 (1785) | | Ch-B PV/Rate Display value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 46021. |
| 46023 | 6022 (1786) | | Alarm and Relay status | Read Only | 1 = In Alarm 1 = relay energized | None | Word; Bits | 03, 04 | Mirror of 40003. Read alarm status and energized/non-energized status of relays. Alm = Alarm. Rly = Relay. |
| 46024 | 6023 (1785) | | Digital Inputs and Outputs status | Read Only | 1 = Input selected 1 = Output active | None | Word; Bits | 03, 04 | Mirror of 40004. Read the state of the digital inputs and outputs. |
| 46025 | 6024 (1788) | | Ch-B Maximum Display value | Read Only | -99999 to 999999 | User defined | Long Hi | 03, 04 | Represents the Maximum display value, excluding the decimal point, since last power up or Max Value reset. |

| Number | Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|--------|----------------|--|--|-----------|---------------------|--------------|-------------|------------------|--|
| | Address (Hex) | | | | | | | | |
| 46026 | 6025 (1789) | | Ch-B Maximum Display value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40025. |
| 46027 | 6026 (178A) | | Ch-B Minimum Display value | Read Only | -99999 to 999999 | User defined | Long Hi | 03, 04 | Represents the Maximum display value, excluding the decimal point, since last power up or Max Value reset. |
| 46028 | 6027 (178B) | | Ch-B Minimum Display value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40027. |
| 46029 | 6028 (178C) | | Ch-B Total value | Read Only | 0 to 999999999 | User defined | Long Hi | 03, 04 | Represents the Total value, excluding the decimal point, since last Total reset. Decimal point setting in 40103. |
| 46030 | 6029 (178D) | | Ch-B Total value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40029. |
| 46031 | 6030 (178E) | | Ch-B Grand Total value | Read Only | 0 to 999999999 | User defined | Long Hi | 03, 04 | Represents the Grand Total value, excluding the decimal point, since last Total reset. Decimal point setting in 40104. |
| 46032 | 6031 (178F) | | Ch-B Grand Total value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40031. |
| 46033 | 6032 (1790) | | Ch-B Total overflow value | Read Only | 0 to 999 | User defined | Integer | 03, 04 | Represents the Total overflow value, since last Total reset. |
| 46034 | 6033 (1791) | | Ch-B Total non- overflow value | Read Only | 0 to 999999 | User defined | Long Hi | 03, 04 | Represents the Total non-overflow value, since last Total reset. |
| 46035 | 6034 (1792) | | Ch-B Total non- overflow value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40034. |
| 46036 | 6035 (1793) | | Ch-B Grand Total overflow value | Read Only | 0 to 999 | User defined | Integer | 03, 04 | Represents the Grand Total overflow value, since last Grand Total reset. |
| 46037 | 6036 (1794) | | Ch-B Grand Total non- overflow value | Read Only | 0 to 999999 | User defined | Long Hi | 03, 04 | Represents the Grand Total non-overflow value, since last Grand Total reset. |
| 46038 | 6037 (1795) | | Ch-B Grand Total non- overflow value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 40037. |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|--|------------------------------|--------------------------------------|---------------|----------------------|---------------------------------|----------------|---------------------|---|
| Number | | | | | | | | | |
| 46039 | | 6038 (1796) | Ch-B Start Batch | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to start the batch process. |
| 46040 | | 6039 (1797) | Ch-B Stop Batch | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to pause the batch process; set bit to 1 again to stop batch process. |
| 46045 | | 6044 (179C) | Reset Ch-B Total value | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to reset the Ch-B Total value. |
| 46046 | | 6045 (179D) | Reset Ch-B Grand Total value | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to reset the Ch-B Grand Total value. |
| 46047 | | 6046 (179E) | Reset Ch-B Batch Count value | Write Only | Not applicable | None | Bit | 06, 16 | Set bit to 1 to reset the Ch-B Batch Count value. To read batch count use register 46152. |
| 46101 | | 6100 (17D4) | Ch-B Input Selection | Read Write | Not applicable | None | Word; bits | 03, 04, 06, 16 | See Table 1. |
| 46102 | | 6101 (17D5) | Ch-B PV/Rate decimal point | Read Write | 0 to 7 | None | Integer | 03, 04, 06, 16 | Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd), also selections for Temp Decimal Point using 0 = dddd, 1 = dddd.d, 6 = dddd*u, and 7 = dddd.du, where "u" is the units (F or C). |
| 46103 | | 6102 (17D6) | Ch-B Total decimal point | Read Write | 0 to 5 | None | Integer | 03, 04, 06, 16 | Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd). |
| 46104 | | 6103 (17D7) | Ch-B Grand Total decimal point | Read Write | 0 to 5 | None | Integer | 03, 04, 06, 16 | Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd). |
| 46105 | | 6104 (17D8) | Ch-B Total time base | Read Write | 0 to 4 | None | Integer | 03, 04, 06, 16 | 0 = sec, 1 = min, 2 = hour, 3 = day |
| 46106 – 46107 | | 6105 - 6106 (17D9 – 17DA) | Ch-B Total Conversion Factor | Read Write | 0.00001 to 999999 | None | Floating point | 03, 04, 06, 16 | |
| 46108 | | 6107 (17DB) | Ch-B Total Reset mode | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | 0 = auto, 1 = manual |
| 46109 | | 6108 (17DC) | Ch-B Total Reset Delay | Read Write | 0 to 9999 | 1/10 of Seconds (0 to 999.9) | Integer | 03, 04, 06, 16 | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|------------------------------|---|---------------|------------------------------|---------------------------------|------------------------|-------------------|---|
| Number | Address (Hex) | | | | | | | |
| 46111 – 46112 | 6109 – 6110 (17DD – 17DE) | Ch-B Grand Total Conversion Factor | Read Write | 0.00001 to 999999 | None | Floating point | 03, 04, 06, 16 | |
| 46113 | 6111 (17DF) | Ch-B Grand Total Reset mode | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | 0 = auto, 1 = manual |
| 46114 | 6112 (17E0) | Ch-B Grand Total Reset Delay | Read Write | 0 to 9999 | 1/10 of Seconds (0 to 999.9) | Integer | 03, 04, 06, 16 | |
| 46115 – 46116 | 6113 – 6114 (17E1 – 17E2) | Ch-B Pulse K- Factor | Read Write | 0.00001 to 999999 | None | Floating point | 03, 04, 06, 16 | |
| 46119 | 6118 (17E6) | Ch-B Units 1 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character. |
| 46120 | 6119 (17E7) | Ch-B Units 2 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-1 value. The hex value represents the allowable ASCII character. |
| 46121 | 6120 (17E8) | Ch-B Units 3 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-2 value. The hex value represents the allowable ASCII character. |
| 46122 | 6121 (17E9) | Ch-B Units 4 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-3 value. The hex value represents the allowable ASCII character. |
| 46123 | 6122 (17EA) | Ch-B Units 5 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-4 value. The hex value represents the allowable ASCII character. |
| 46124 | 6123 (17EB) | Ch-B Units 6 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character. |
| 46126 | 6125 (17ED) | Ch-B Adjust Value | Read Write | -500 to 500 | 1/10 of °C or °F | Integer | 03, 04, 06, 16 | Actually represents -50.0 to +50.0. Offset value is only applied to temperature inputs. If Adjust is greater than 27.7°C and the temperature units are switched to °F, it will be set to 50.0 (lower than -27.7, set to -50.0). |
| 46127 | 6126 (17EE) | Ch-B RTD Total Value | Read Write | 1 to 10 | None | Integer | 03, 04, 06, 16 | Value represents the number of parallel RTDs connected to the signal input. Any other value than these results in a setting of 1. |
| 46128 | 6127 (17EF) | Ch-B Lo Gate Setting | Read Write | 1 to 999 | None | Integer | 03, 04, 06, 16 | Actually represents 0.1 to 99.9 setting. |

| Register 1 | | Address (Hex) | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|-------------------------------------|---------------------------|------------|--------------------------------|-----------------------------|----------------|----------------|--|----------|
| Number | | | | | | | | | |
| 46129 | Ch-B High Gate Setting | 6128 (17F0) | Read Write | 20 to 9999 | None | Integer | 03, 04, 06, 16 | Actually represents 2.0 to 999.9 setting. | |
| 46130 | Ch-B Filter Setting | 6129 (17F1) | Read Write | 0, 2 to 199 or 202 to 250, 900 | Unit-less | Integer | 03, 04, 06, 16 | Display filtering. 0 = no filtering. 2 to 199 = old + (new - old)/Filter. For pulse input 900 = Hi-Speed, 202 to 250 = Lo-Speed where the range is 2 to 50. | |
| 46131 | Ch-B Bypass Setting | 6130 (17F2) | Read Write | 2 to 999 | Percent of full scale or °F | Integer | 03, 04, 06, 16 | Actually represents 0.2 to 99.9. If the input steps greater than the bypass value, it will be displayed immediately, with no filtering occurring. The number represents percent of full-scale for process inputs and °F for temperature inputs. No effect if filter = 0. | |
| 46137 | Ch-B Function Mode | 6136 (17F8) | Read Write | 0 to 3 | None | Integer | 03, 04, 06, 16 | 0 = Linear, 1 = Square Root, 2 = Exponent, 3 = Round Horizontal Tank | |
| 46138 | Ch-B PV/Rate mA Number of Points | 6137 (17F9) | Read Write | 2 to 32 | None | Integer | 03, 04, 06, 16 | This register is only used when register 46137 = 0 Linear. Ch-B voltage input number of points uses register 46188. | |
| 46139 | Ch-B Exponent | 6138 (17FA) | Read Write | 10001 to 29999 | None | Integer | 03, 04, 06, 16 | Actually represents 1.0001 to 2.9999. Set register 46137 = 2 | |
| 46140 – 46141 | Ch-B Round Horizontal Tank Diameter | 6139 - 6140 (17FB - 17FC) | Read Write | 0 to 999.999 | Inch/cm | Floating point | 03, 04, 06, 16 | Decimal point is fixed. The unit of measure is inches or cm; the volume calculation is in US gallons and liters. The display may be re-scaled to represent the volume in any engineering units. Register 46137 = 3 RHT. | |
| 46142 – 46143 | Ch-B Round Horizontal Tank Length | 6141 - 6142 (17FD - 17FE) | Read Write | 0 to 999.999 | Inch/cm | Floating point | 03, 04, 06, 16 | Register 46190 Round horizontal tank units 0 = inch 1 = cm Volume: Gallon Volume: Liter | |
| 46144 – 46145 | Ch-B Cutoff | 6143 - 6144 (17FF - 1800) | Read Write | 0 to 999999 | User defined | Floating point | 03, 04, 06, 16 | Represents the cutoff value. | |
| 46146 | Ch-B Total Count Direction | 6145 (1801) | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | 0 = count up, 1 = count down | |
| 46147 – 46148 | Ch-B Batch Total Preset | 6146 – 6147 (1802 -1803) | Read Write | 0 to 999999999 | User defined | Floating point | 03, 04, 06, 16 | Same as 46302 – 46303 Relay 1 set point. | |
| 46149 | Ch-B Grand Total Count Direction | 6148 (1804) | Read Write | Not applicable | None | Bit | 03, 04, 06, 16 | 0 = count up, 1 = count down | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|------------------------------|--|---------------|------------------------------|--------------|------------------------|-------------------|---|
| Number | Address (Hex) | | | | | | | |
| 46150 – 46151 | 6149 – 6150 (1805 – 1806) | Ch-B Grand Total Count Down Start | Read Write | 0 to 999999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 46152 | 6151 (1807) | Ch-B Batch Count | Read Only | 0 to 9999999 | None | Integer | 03, 04, 06, 16 | Represents the number of completed batches. To reset the Ch-B batch count use register 46047. |
| 46153 – 46154 | 6152 – 6153 (1808 – 1809) | Ch-B Gross Display Value | Read Only | -99999 to 9999999 | User defined | Floating point | 03, 04 | Represents the Gross display value including the decimal point. Under Range = -99999, Over Range = 9999999 |
| 46155 – 46156 | 6154 – 6155 (180A – 180B) | Ch-B Net Display Value | Read Only | -99999 to 9999999 | User defined | Floating point | 03, 04 | Represents the Net display value including the decimal point. Under Range = -99999, Over Range = 9999999 |
| 46157 – 46158 | 6156 – 6157 (180C – 180D) | Ch-B Millivolt Display Value | Read Only | -99999 to 9999999 | User defined | Floating point | 03, 04 | Represents the Net display value including the decimal point. Under Range = -210.00, Over Range = 210.00 |
| 46160 | 6159 (180F) | Ch-B Total Units 1 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character. |
| 46161 | 6160 (1810) | Ch- B Total Units 2 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-1 value. The hex value represents the allowable ASCII character. |
| 46162 | 6161 (1811) | Ch- B Total Units 3 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-2 value. The hex value represents the allowable ASCII character. |
| 46163 | 6162 (1812) | Ch- B Total Units 4 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-3 value. The hex value represents the allowable ASCII character. |
| 46164 | 6163 (1813) | Ch- B Total Units 5 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-4 value. The hex value represents the allowable ASCII character. |
| 46165 | 6164 (1814) | Ch- B Total Units 6 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character. |
| 46166 | 6165 (1815) | Ch-B Grand Total Units 1 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character. |
| 46167 | 6166 (1816) | Ch- B Grand Total Units 2 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-1 value. The hex value represents the allowable ASCII character. |
| 46168 | 6167 (1817) | Ch- B Grand Total Units 3 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-2 value. The hex value represents the allowable ASCII character. |

| Number | Register 1 | | Name | Access | Limits or Range 2 | Units | Data Type 3 | Function Code(s) | Comments |
|---------------|------------------------------|--|--|---------------|--|--------------|----------------|-------------------|--|
| | Address (Hex) | | | | | | | | |
| 46169 | 6168 (1818) | | Ch-B Grand Total Units 4 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-3 value. The hex value represents the allowable ASCII character. |
| 46170 | 6169 (1819) | | Ch-B Grand Total Units 5 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-4 value. The hex value represents the allowable ASCII character. |
| 46171 | 6170 (181A) | | Ch-B Grand Total Units 6 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character. |
| 46172 – 46173 | 6171 – 6172 (181B – 181C) | | Ch-B Total Count Down Start | Read Write | 0 to 999999999 | User defined | Floating point | 03, 04, 06, 16 | |
| 46188 | 6187 (182B) | | Ch-B PV/Rate Volt Number of Points | Read Write | 2 to 32 | None | Integer | 03, 04, 06, 16 | This register is only used when register 40137 = 0 Linear. Ch-B mA input number of points uses register 46138. |
| 46190 | 6189 (182D) | | Ch-B RHT Inch/cm Selection | Read Write | 0 or 1 | Inch or cm | Byte | 03, 04, 06, 16 | 0 = Inch, 1 = centimeter Register 46137 = 3 RHT Tank diameter and length: Registers 46140-143. |
| 46201-46202 | 6200 – 6201 (1838 - 1839) | | Ch-C Display Value | Read Only | -99,999 to 99,999 | User defined | Floating point | 03, 04, 06, 16 | Ch-C is the math channel |
| 46203 | 6202 (183A) | | Alarm and Relay status | Read Only | 1 = In Alarm 1 = relay energized | None | Word; Bits | 03, 04 | Mirror of 40003. Read alarm status and energized/non-energized status of relays. Alm = Alarm. Rly = Relay. |
| 46204 | 6203 (183B) | | Digital Inputs and Outputs status | Read Only | 1 = Input selected 1 = Output active | None | Word; Bits | 03, 04 | Mirror of 40004. Read the state of the digital inputs and outputs. |
| 46205 – 46206 | 6204 - 6205 (183C - 183D) | | Ch-C Maximum Display value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the Maximum display value, including the decimal point, since last power up or Max Value reset. |

| Number | Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|------------------------------|-------|-----------------------------------|------------|---|--------------|------------------------|------------------|--|------|------|------|------|------|------|---|---|---|---|---|---|---|---|---|---|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| | Address (Hex) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46207 – 46208 | 6206 - 6207 (183E - 183F) | | Ch-C Minimum Display value | Read Only | -99999 to 999999 | User defined | Floating point | 03, 04 | Represents the Minimum display value, including the decimal point, since last power up or Min Value reset. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46221 | 6220 (184C) | | Ch-C Display value | Read Only | -99999 to 999999 | User defined | Long Hi | 03, 04 | Represents the PV/Rate display value excluding the decimal point. Decimal point setting in 46102. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46222 | 6221 (184D) | | Ch-C Display value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 46221. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46223 | 6222 (184E) | | Alarm and Relay status | Read Only | 1 = In Alarm 1 = relay energized | None | Word; Bits | 03, 04 | Mirror of 40003. Read alarm status and energized/non-energized status of relays. Alm = Alarm. Rly = Relay. <table border="1" style="font-size: small; width: 100%;"> <tr> <td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td> </tr> <tr> <td>Alm 8</td><td>Alm 7</td><td>Alm 6</td><td>Alm 5</td><td>Alm 4</td><td>Alm 3</td><td>Alm 2</td><td>Alm 1</td><td>Rly8</td><td>Rly7</td><td>Rly6</td><td>Rly5</td><td>Rly4</td><td>Rly3</td><td>Rly2</td><td>Rly1</td> </tr> </table> | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | Alm 8 | Alm 7 | Alm 6 | Alm 5 | Alm 4 | Alm 3 | Alm 2 | Alm 1 | Rly8 | Rly7 | Rly6 | Rly5 | Rly4 | Rly3 | Rly2 | Rly1 |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alm 8 | Alm 7 | Alm 6 | Alm 5 | Alm 4 | Alm 3 | Alm 2 | Alm 1 | Rly8 | Rly7 | Rly6 | Rly5 | Rly4 | Rly3 | Rly2 | Rly1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46224 | 6223 (184F) | | Digital Inputs and Outputs status | Read Only | 1 = Input selected 1 = Output active | None | Word; Bits | 03, 04 | Mirror of 40004. Read the state of the digital inputs and outputs. <table border="1" style="font-size: small; width: 100%;"> <tr> <td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>0</td> </tr> <tr> <td>DI 8</td><td>DI 7</td><td>DI 6</td><td>DI 5</td><td>DI 4</td><td>DI 3</td><td>DI 2</td><td>DI 1</td><td>DO8</td><td>DO7</td><td>DO6</td><td>DO5</td><td>DO4</td><td>DO3</td><td>DO2</td><td>DO1</td> </tr> </table> | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | DI 8 | DI 7 | DI 6 | DI 5 | DI 4 | DI 3 | DI 2 | DI 1 | DO8 | DO7 | DO6 | DO5 | DO4 | DO3 | DO2 | DO1 |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DI 8 | DI 7 | DI 6 | DI 5 | DI 4 | DI 3 | DI 2 | DI 1 | DO8 | DO7 | DO6 | DO5 | DO4 | DO3 | DO2 | DO1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46225 | 6224 (1850) | | Ch-C Maximum Display value | Read Only | -99999 to 999999 | User defined | Long Hi | 03, 04 | Represents the Maximum display value, excluding the decimal point, since last power up or Max Value reset. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46226 | 6225 (1851) | | Ch-C Maximum Display value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 46025. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46227 | 6226 (1852) | | Ch-C Minimum Display value | Read Only | -99999 to 999999 | User defined | Long Hi | 03, 04 | Represents the Maximum display value, excluding the decimal point, since last power up or Max Value reset. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46228 | 6227 (1853) | | Ch-C Minimum Display value | Read Only | | User defined | Long Lo | 03, 04 | Must be read with 46027. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46302 | 6301 (189D) | | Ch-C Decimal point | Read Write | 0 to 7 | None | Integer | 03, 04, 06, 16 | Selects based on number of digits to the right of the decimal point (e.g. 0 = no decimal point and 5 = d.ddddd), also selections for Temp Decimal Point using 0 = dddd, 1 = dddd.d, 6 = dddd*u, and 7 = dddd.du, where "u" is the units (F or C). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46319 | 6318 (18AE) | | Ch-C Units 1 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD (Most Significant Digit) value. The hex value represents the allowable ASCII character. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Register ¹ | | Name | Access | Limits or Range ² | Units | Data Type ³ | Function Code(s) | Comments |
|-----------------------|---------------------------|------------------------|------------|------------------------------|-------|------------------------|------------------|--|
| Number | Address (Hex) | | | | | | | |
| 46320 | 6319 (18AF) | Ch-C Units 2 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-1 value. The hex value represents the allowable ASCII character. |
| 46321 | 6320 (18B0) | Ch-C Units 3 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-2 value. The hex value represents the allowable ASCII character. |
| 46322 | 6321 (18B1) | Ch-C Units 4 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-3 value. The hex value represents the allowable ASCII character. |
| 46323 | 6322 (18B2) | Ch-C Units 5 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-4 value. The hex value represents the allowable ASCII character. |
| 46324 | 6323 (18B3) | Ch-C Units 6 | Read Write | Not applicable | None | Byte | 03, 04, 06, 16 | Represents the Modbus Little Display MSD-5 (which is the LSD) value. The hex value represents the allowable ASCII character. |
| 46401 | 6400 (1900) | Math Function | Read Write | 0 to 19 | None | Integer | 03, 04, 06, 16 | See Table 9 |
| 46402-46403 | 6401 - 6402 (1901 - 1902) | Constant P Adder | Read Write | -99999 to 999999 | None | Floating point | 03, 04, 06, 16 | |
| 46404-46405 | 6403 - 6404 (1903 - 1904) | Constant F Factor | Read Write | 0.00001 to 999999 | None | Floating point | 03, 04, 06, 16 | |
| 49901 – 49904 | 9900-9903 (26AC – 26AF) | Product Identifier | Read Only | Not applicable | None | ASCII characters | 03, 04 | 8 characters indicating the product digit software release number (for SFT039 this would be 039), three ASCII hex character value of the Main board input, and two ASCII hex characters of the Input card (see Table 6). |
| 49905 – 49908 | 9904-9907 (26B0 – 26B3) | Firmware Version | Read Only | Not applicable | None | ASCII characters | 03, 04 | 8 characters indicating the firmware version number |
| 49917 | 9916 (26BC) | Product Number | Read Only | 0 to 99999 | None | Integer | 03, 04 | See Table 7. |
| 49918 | 9917 (26BD) | Firmware Version | Read Only | 0 to 99999 | None | Integer | 03, 04 | Decimal point is not included (e.g. 2200 = v2.200) |
| 49998 | 9997 (270D) | Init Meter Serial Comm | Write Only | 0xFF00 to initialize | None | Unsigned integer | 06, 16 | Write 0xFF00 to initialize the meter serial port after changing serial port parameters |
| 49999 | 9998 (270E) | Load Factory Defaults | Write Only | 0xFF00 to initialize | None | Unsigned integer | 06, 16 | Write 0xFF00 to load factory defaults to the meter. Writing any other data has no effect. |

Notes

Note 1. The Register numbers and addresses follow the Modbus format:

- 3xxxx are for Input Registers and are read – only.
 - 4xxxx are for Holding Registers and are read/write.
- Although there are no specific 3x Registers, all 4x Registers are mirrored into 3x register space, and are therefore capable of being read by Modbus function 04 (Read Input Registers). All data addresses in Modbus messages are referenced to zero (0), while Register addresses are referenced to one (1). For example, Register 40100 is sent in the Modbus message as 0x0063 (100 - 1 = 99 ≡ 63 hex). If two addresses are shown separated by a “-”, they form a register pair to make the parameter into a 4-byte (32 bit) value.

Note 2. Limits or Range: Writing a value that is outside the parameters range will force it to be limited to the closest value within the range. For example, if the range is -1.99 to +1.99 and the value sent is 3.21, the value used is 1.99. Likewise for the lower side of the range. Exceptions are noted in the comments.

Note 3. Data Types:

Data format is highest byte first (Byte order: 1234).

Word = 16 bit

Integer = -32768 to 32767

Unsigned integer = 0 to 65535

Long = -2,147,483,648 to 2,147,483,647

Float = IEEE floating point format, 4 bytes

For the complete floating point standard, see IEEE 754-1985 Standard for Binary Floating-Point Arithmetic.

Integers data: The values represent the number without regard to the decimal point. The decimal point setting can be found in Holding Register 40102.

For example, if the number 1234.56 is displayed, a read of both 40021 – 40022 together will return 1 – 23456 (0x0001 – 0xE240). Register 40102 will contain 2 (0x0002) to indicate a decimal point setting of two places to the right of the decimal point. A floating point version of the displayed number, with the decimal point included, is also available by accessing register 40001-40002.

Example (register values are shown in hexadecimal):

| Process value displayed | Registers 40001 – 40002 | Register 40021 | Register 40022 | Register 40102 |
|-------------------------|-------------------------|----------------|----------------|----------------|
| 123.456 | 42F6 – E979 | 0001 | E240 | 0003 |
| 1234.56 | 449A – 51EC | 0001 | E240 | 0002 |
| 12345.6 | 4640 – E666 | 0001 | E240 | 0001 |
| -1234.5 | C49A – 5000 | FFFF | CFC7 | 0001 |

For the complete floating point standard, see IEEE 754-1985 Standard for Binary Floating-Point Arithmetic.

Note 4. A read of the Password register will return 0x000000 if the meter is unlocked, otherwise it will return 0xFFFFFFFF to indicate a locked meter. To unlock, the correct lock number must be written, which will then clear the lock number to 0x000000. If the wrong lock number is written, the reply will return 0xFFFFFFFF. If the correct lock number is written, the reply will be 0x000000. An unlocked meter can be locked by writing any non – zero value up to 0x99999999.

Note 5. Remote scaling procedure:

- a. Write the desired values for the display, Display 1 & 2, for the active input type. The active input type is selected using the Input Selection register 40101 and Table 1.
- b. Write the desired values for the input, Input 1 & 2, for the active input type.
- c. Write to the remote scaling register for the active input type.

Warning!

The scaling process takes the input values and converts them to A/D counts. Therefore, do NOT execute a remote scaling register write without first writing the display and input registers. In a similar vein, don't write to the mA registers and then execute a remote scale command for the volts input.

Warning!

Always allow the meter and the signal input circuitry to warm – up at least 20 minutes prior to calibrations. The scaling process takes the input values in mA or volts and converts them to A/D counts. Therefore, do NOT execute a remote scaling register write without first writing the display and input registers. In a similar vein, don't write to the mA (volts) registers and then execute a remote scale command for the volts (mA) input.

Tables

Table 1. Input configuration (Ch-A: 40101, Ch-B: 46101)

Valid input configuration settings are dependent on the meter type (i.e. temperature type and unit settings are only valid when the meter has a temperature input – otherwise the bits are 0's for both read and write).

| Bit(s) | 15, 14, 13, 12, 11, 10, 9, 8 | 7 | 6, 5, 4 | 3, 2, 1, 0 |
|----------|------------------------------|--------------------------|--------------------------------------|--------------------------------|
| Function | Input Setting | Temperature Unit Setting | Decimal Point Setting | Temperature Type Setting |
| 00000000 | Volts | 0 °C | 000 | Type J thermocouple |
| 00010001 | Current | 1 °F | 001 ddddd.d (dddd.d for temperature) | Type K thermocouple |
| 00100010 | RTD | | 010 dddd.dd | Type T thermocouple |
| 00100011 | Thermocouple | | 011 ddd.ddd | Type E thermocouple |
| 10000000 | Pulse | | 100 dd.dddd | Type R thermocouple |
| 01000000 | Strain 15 mV w/ ratio | | 101 d.ddddd | Type S thermocouple |
| 01000001 | Strain 15 mV w/o ratio | | 110 dddd°u (° symbol displayed) | Type B thermocouple |
| 01000010 | Strain 25/30 mV w/ ratio | | 111 dddd.du (temp unit displayed) | Type N thermocouple |
| 01000011 | Strain 25/30 mV w/o ratio | | | Type C thermocouple |
| 01000100 | Strain 150 mV w/ ratio | | | 1000 100 Ω Platinum RTD (385) |
| 01000101 | Strain 150 mV w/o ratio | | | 1010 100 Ω Platinum RTD (392) |
| 01000110 | Strain 250/300 mV w/ ratio | | | 1011 1000 Ω Platinum RTD (385) |
| 01000111 | Strain 250/300 mV w/o ratio | | | 1100 1000 Ω Platinum RTD (392) |
| | | | | 1101 10 Ω Copper RTD |
| | | | | 1110 120 Ω Nickel RTD |

Table 2. Display Settings

Big Display Settings (40117)

| Integer | Function |
|---------|--|
| 0 | Display Process Value |
| 1 | Display Set Point 1 |
| 2 | Display Set Point 2 |
| 3 | Display Set Point 3 |
| 4 | Display Set Point 4 |
| 5 | Display Set Point 5 |
| 6 | Display Set Point 6 |
| 7 | Display Set Point 7 |
| 8 | Display Set Point 8 |
| 9 | Display Maximum Display Value |
| 10 | Display Minimum Display Value |
| 11 | Display Maximum / Minimum Display Value |
| 12 | Display Rate |
| 13 | Display Total |
| 14 | Display Grand Total |
| 15 | Display Rate / Total |
| 16 | Display Rate / Grand Total |
| 17 | Display Batch Counter |
| 18 | Modbus Display |
| 19 | Display PV2, single input/dual-scale |
| 20 | Display PCT (PV1 %), single input/dual-scale |
| 21 | N/A |
| 22 | Display Set 1 / Rate (Batch only) |
| 23 | N/A |
| 24 | Display Ch-B |
| 25 | Display Ch-A & B (Toggle) |
| 26 | Display Ch-C |
| 27 | Display max Ch-B |
| 28 | Display min Ch-B |
| 29 | Display max/min Ch-B |
| 30 | Display max Ch-C |
| 31 | Display min Ch-C |
| 32 | Display max/min Ch-C |
| 33 | Display Ch A Rate & Units |
| 34 | Display Ch B Rate & Units |
| 35 | Display Ch C Rate & Units |

Little Display Settings (40118)

| Integer | Function |
|---------|---|
| 0 | Display Process Value |
| 1 | Display Set Point 1 |
| 2 | Display Set Point 2 |
| 3 | Display Set Point 3 |
| 4 | Display Set Point 4 |
| 5 | Display Set Point 5 |
| 6 | Display Set Point 6 |
| 7 | Display Set Point 7 |
| 8 | Display Set Point 8 |
| 9 | Display Maximum Display Value |
| 10 | Display Minimum Display Value |
| 11 | Display Maximum / Minimum Display Value |
| 12 | Display Rate |
| 13 | Display Total |
| 14 | Display Grand Total |
| 15 | Display Rate / Total |
| 16 | Display Rate / Grand Total |
| 17 | Display Batch Counter |
| 18 | Modbus Display |
| 19 | Display PV2 |
| 20 | Display PCT (PV1 %) |
| 21 | Display Engineering Units (A, B, or C)* |
| 22 | Display Set 1 / Rate (Batch only) |
| 23 | Display OFF |
| 24 | Display Ch-B |
| 25 | Display Ch-A & B (Toggle) |
| 26 | Display Ch-C |
| 27 | Display max Ch-B |
| 28 | Display min Ch-B |
| 29 | Display max/min Ch-B |
| 30 | Display max Ch-C |
| 31 | Display min Ch-C |
| 32 | Display max/min Ch-C |
| 33 | Display Ch A Rate & Units |
| 34 | Display Ch B Rate & Units |
| 35 | Display Ch C Rate & Units |

*Engineering units are associated with the top (Big) display assignment; if Ch-C is being displayed, the units on the bottom display will correspond to Ch-C.
 Note: Parameters not identified as corresponding to channel B or C are either applicable to all channels or they belong to channel A for dual-input meters.

Table 2 continued on next page

Table 2 continued from previous page

Big Display Settings (40117)

| | |
|-------|---|
| 36 | Display Gross Ch-A |
| 37 | Display Net / Gross Ch-A |
| 38 | Display Millivolt (Strain Gauge) |
| 39 | Display Gross Ch-B |
| 40 | Display Net / Gross Ch-B |
| 41 | Display Ch-A & C |
| 42 | Display Ch-B & C |
| 43 | Display Ch-A, B, & C |
| 44 | Display Total Ch-B |
| 45 | Display Grand Total Ch-B |
| 46 | Display Rate / Total Ch-B |
| 47 | Display Rate / Grand Total Ch-B |
| 48 | Reserved Display Batch Counter Ch B |
| 49 | Reserved Display Set 3 / Rate Ch B (Dual-Batch) |
| 50 | Display Total Ch A & Ch B |
| 51 | Display Total CH A, Ch B, & Total A+B |
| 52 | Display Ch A Total & Units |
| 53 | Display Ch B Total & Units |
| 54 | Display Ch A Grand Total & Units |
| 55 | Display Ch B Grand Total & Units |
| 56-67 | Reserved for Modbus Scanner |
| 68 | Display Sum Total A + Total B |
| 69 | Display Diff Total A - Total B |

Little Display Settings (40118)

| | |
|-------|---|
| 36 | Display Gross Ch-A |
| 37 | Display Net / Gross Ch-A |
| 38 | Display Millivolt (Strain Gauge) |
| 39 | Display Gross Ch-B |
| 40 | Display Net / Gross Ch-B |
| 41 | Display Ch-A & C |
| 42 | Display Ch-B & C |
| 43 | Display Ch-A, B, & C |
| 44 | Display Total Ch-B |
| 45 | Display Grand Total Ch-B |
| 46 | Display Rate / Total Ch-B |
| 47 | Display Rate / Grand Total Ch-B |
| 48 | Reserved Display Batch Counter Ch B |
| 49 | Reserved Display Set 3 / Rate Ch B (Dual-Batch) |
| 50 | Display Total Ch A & Ch B |
| 51 | Display Total CH A, Ch B, & Total A+B |
| 52 | Display Ch A Total & Units |
| 53 | Display Ch B Total & Units |
| 54 | Display Ch A Grand Total & Units |
| 55 | Display Ch B Grand Total & Units |
| 56-67 | Reserved for Modbus Scanner |
| 68 | Display Sum Total A + Total B |
| 69 | Display Diff Total A - Total B |

Table 3. User Programmable Settings

Digital Inputs & Function Keys Setting (40201 – 40212)

| Integer | Function |
|---------|---|
| 0 | Disable Function |
| 1 | Menu Key |
| 2 | Right Arrow Key |
| 3 | Up Arrow Key |
| 4 | Enter Key |
| 5 | Acknowledge Alarms |
| 6 | Reset Tare |
| 7 | Reset Batch Counter |
| 8 | Reset Total |
| 9 | Reset Grand Total |
| 10 | Reset Maximum Value |
| 11 | Reset Minimum Value |
| 12 | Reset Max & Min Values |
| 13 | Tare A |
| 14 | Tare B |
| 15 | Relay Menu |
| 16 | Set Point 1 (Preset A) Programming |
| 17 | Set Point 2 Programming |
| 18 | Set Point 3 (Preset B) Programming |
| 19 | Set Point 4 Programming |
| 20 | Set Point 5 Programming |
| 21 | Set Point 6 Programming |
| 22 | Set Point 7 Programming |
| 23 | Set Point 8 Programming |
| 24 | Start Batch |
| 25 | Stop Batch |
| 26 | Display Hold while active |
| 27 | Relay Disable |
| 28 | Relay Enable |
| 29 | Relay Output Hold |
| 30 | Maximum Value on Little Display Ch-C |
| 31 | Minimum Value on Little Display Ch-C |
| 32 | Max/Min Value on Little Display Ch-C |
| 33 | Maximum Value on Big Display Ch-A |
| 34 | Minimum Value on Big Display Ch-A |
| 35 | Max/Min Value on Big Display Ch-A |
| 36 | Display A, B, C with units in sequence |
| 37 | Maximum Value on Little Display Ch-B |
| 38 | Minimum Value on Little Display Ch-B |
| 39 | Maximum/Minimum Value on Little Display Ch-B |
| 40 | Force ON Relay #1 (D)-1 to 8 Set Reg. 301 Action = Off) |
| 41 | Force ON Relay #2 (D)-1 to 8 Set Reg. 310 Action = Off) |
| 42 | Force ON Relay #3 (D)-1 to 8 Set Reg. 319 Action = Off) |
| 43 | Force ON Relay #4 (D)-1 to 8 Set Reg. 328 Action = Off) |
| 44 | Grand Total Value on Little Display |
| 45 | Batch Count Value on Little Display |
| 46 | Toggle Start/Stop Batch |

Digital Outputs Settings (40213 – 40220)

| Integer | Function |
|---------|----------------------------------|
| 0 | Disable Function |
| 1 | Alarms Acknowledged |
| 2 | End of Ch A Batch |
| 3 | Batch Counter Reset |
| 4 | Total Reset |
| 5 | Grand Total Reset |
| 6 | Maximum Value Reset |
| 7 | Minimum Value Reset |
| 8 | Maximum/Minimum Value Reset |
| 9 | Tare Ch-A Selected |
| 10 | Reset Tare Selected (Ch-A & B) |
| 11 | Alarm 1 Active |
| 12 | Alarm 2 Active |
| 13 | Alarm 3 Active |
| 14 | Alarm 4 Active |
| 15 | Alarm 5 Active |
| 16 | Alarm 6 Active |
| 17 | Alarm 7 Active |
| 18 | Alarm 8 Active |
| 19 | Start Batch Selected |
| 20 | Stop Batch Selected |
| 21 | Start / Stop Selected |
| 22 | Start Ch A Batch Selected |
| 23 | Stop Ch A Batch Selected |
| 24 | Start / Stop Ch A Batch Selected |
| 25 | Reset Ch A Batch Count |
| 26 | Start Ch B Batch Selected |
| 27 | Stop Ch B Batch Selected |
| 28 | Start / Stop Ch B Batch Selected |
| 29 | Reset Ch B Batch Count |
| 30 | Pause Batch Ch A and Ch B |
| 31 | Pause Batch Ch A |
| 32 | Pause Batch Ch B |
| 33 | Total Ch A Reset |
| 34 | Grand Total Ch A Reset |
| 35 | Total Ch B Reset |
| 36 | Grand Total Ch B Reset |
| 37 | End of Ch B Batch |
| 38 | Tare Ch B Selected |

Note: Some of the functions listed are dependent on model being used. For example: the batch functions are only available with the batch controller model.

Table 3 continued on next page

Table 3 continued from previous page

Digital Inputs & Function Keys Setting (40201 – 40212)

| | |
|-------|--|
| 47 | Display Millivolt |
| 48 | Reset Total Ch A |
| 49 | Reset Grand Total Ch A |
| 50 | Reset Total Ch B |
| 51 | Reset Grand Total Ch B |
| 52 | Display Total A, B, C with units displayed in sequence |
| 53 | Display GT A, B, C with units displayed in sequence |
| 54 | Display Batch Count A, B displayed in sequence |
| 55 | Quad mode A1 input ("qd A1") on this input |
| 56 | Quad mode B1 input ("qd B1") on this input |
| 57 | Start Batch Ch A |
| 58 | Stop Batch Ch A |
| 59 | Start / Stop Batch Ch A Toggle |
| 60 | Reset Batch Count Ch A |
| 61 | Start Batch Ch B |
| 62 | Stop Batch Ch B |
| 63 | Start / Stop Batch Ch B Toggle |
| 64 | Reset Batch Count Ch B |
| 65 | Zero Display (Strain only) |
| 66 | Reset Menu |
| 67 | Control Menu |
| 68-70 | Reserved for Modbus Scanner |
| 71 | Factor Menu (Pulse Input) |

Table 4. Relay Configuration Mode (40301, 310, ... 364)

| Bit(s) | 15 – 10 | 9 – 8 | 7 | 6 | 5 – 3 | 2 – 0 |
|----------|----------|--------------|------------|-------------|-------------------------|------------------------|
| Function | Reserved | Sensor Break | Fail-Safe | Pre-close | Action | Assignment |
| | 000000 | 00 Ignore | 0 Normal | 0 Normal | 000 Automatic reset | 000 Process Value |
| | | 01 OFF | 1 Failsafe | 1 Pre-close | 001 Auto & Manual reset | 001 Total |
| | | 10 ON | | | 010 Latching | 010 Grand Total |
| | | | | | 011 Latching with Clear | 011 Modbus Input |
| | | | | | 100 Pump Alternation | 100 Ch-B Process Value |
| | | | | | 101 Sample | 101 Ch-B Total |
| | | | | | 110 Unused | 110 Ch-B Grand Total |
| | | | | | 111 Off | 111 Ch-C Math Value |

| |
|-----------------|
| Relay Registers |
| Rly1: 301 |
| Rly2: 310 |
| Rly3: 319 |
| Rly4: 328 |
| Rly5: 337 |
| Rly6: 346 |
| Rly7: 355 |
| Rly8: 364 |

Table 5. 4-20 mA Output Data Source (40402)

| Integer | Function |
|---------|-------------------|
| 0 | Process Value |
| 1 | Max Display Value |
| 2 | Min Display Value |
| 3 | Modbus Input |
| 4 | Total |
| 5 | Grand Total |
| 6 | Set Point 1 |
| 7 | Set Point 2 |
| 8 | Set Point 3 |
| 9 | Set Point 4 |
| 10 | Set Point 5 |
| 11 | Set Point 6 |
| 12 | Set Point 7 |
| 13 | Set Point 8 |

| Integer | Function |
|---------|-----------------------------|
| 14 | Ch-B Process Value |
| 15 | Ch-C Math Channel Value |
| 16 | Ch-B Max Display Value |
| 17 | Ch-B Min Display Value |
| 18 | Ch-A or B Max Display Value |
| 19 | Ch-A or B Min Display Value |
| 20 | Ch-B Total |
| 21 | Ch-B Grand Total |

Table 6. Input Identification Configuration (49901 – 49904)

| Firmware Identifier | | Main Board Configuration | | Input Board Configuration | |
|---------------------|---------------|--------------------------|--------------------------|---------------------------|----------|
| Byte | Product | Byte | Function | Byte | Function |
| 039 | PD6000 Series | 000 | Process / Temp | 00 | Reserved |
| 063 | PD7000 Series | 100 | Process Totalizer | | |
| 065 | PD6060 Series | 200 | Pulse Totalizer | | |
| 070 | PDD6000 Demo | 300 | Dual Process | | |
| 071 | PD6100 Series | 400 | Strain / Dual V & I | | |
| 106 | PD6400 Series | 500 | Process Batch Controller | | |
| | | 600 | Pulse Batch Controller | | |
| | | 700 | Reserved | | |

*Note: Each register holds two ASCII characters.
Example: PD6000 Process (SF7039)
49901: 0x3033 = 03
49902: 0x3930 = 90
49903: 0x3030 = 00*

Table 7. Product Number & Description (49917)

| Integer | Description |
|---------|---|
| 6000 | Process |
| 6060 | Dual Process |
| 6100 | Strain Gauge/Load Cell |
| 6110 | Reserved: Strain Gauge/Load Cell Batch Controller |
| 6200 | Process Totalizer |
| 6210 | Process Batch Controller |
| 6262 | Dual Process Totalizer |
| 6272 | Reserved: Dual Process Batch Controller |
| 6300 | Pulse Totalizer |
| 6310 | Pulse Batch Controller |
| 6363 | Dual Pulse Totalizer |
| 6373 | Reserved: Dual Pulse Batch Controller |
| 6400 | Dual AC/DC High Voltage and Current |
| 7000 | Temperature |

Table 8. Allowable ASCII Character Set (40076 – 81, 40082 – 87, 40119 – 124)

| Display | HEX | ASCII | Display | HEX | ASCII | Display | HEX | ASCII |
|---------|-----|-------|---------|-----|-------|---------|-----|-------|
| 0 | 30 | 0 | A | 41 | A | J | 4A | J |
| 1 | 31 | 1 | b | 62 | b | H | 4B | K |
| 2 | 32 | 2 | c | 43 | C | L | 4C | L |
| 3 | 33 | 3 | d | 63 | c | n | 6D | m |
| 4 | 34 | 4 | e | 64 | d | n | 6E | n |
| 5 | 35 | 5 | f | 45 | E | o | 4F | O |
| 6 | 36 | 6 | F | 46 | F | o | 6F | o |
| 7 | 37 | 7 | G | 47 | G | P | 50 | P |
| 8 | 38 | 8 | g | 67 | g | q | 71 | q |
| 9 | 39 | 9 | H | 48 | H | r | 72 | r |
| | | | h | 68 | h | S | 53 | S |
| | | | i | 49 | i | t | 74 | t |
| | | | i | 69 | i | u | 75 | u |

| Display | HEX | ASCII |
|---------|-----|-------|
| U | 56 | V |
| W | 77 | w |
| X | 58 | X |
| Y | 59 | Y |
| Z | 5A | Z |
| - | 2D | - |
| / | 2F | / |
|] | 5B |] |
| [| 5D | [|
| = | 3D | = |
| SP | 20 | SP |
| < | 3C | < |

Table 9. Channel C Math Functions (46401)

| Integer | Function | Integer | Function | Integer | Function |
|---------|---------------|---------|-----------------|---------|----------------------|
| 0 | Add | 7 | Min of A or B | 14 | Subtract Total |
| 1 | Subtract | 8 | Draw | 15 | Subtract Grand Total |
| 2 | Absolute Diff | 9 | Weighted Avg. | 16 | Total Ratio |
| 3 | Average | 10 | Ratio | 17 | Total Percent |
| 4 | Multiply | 11 | Concentration | 18 | Total Ratio2 |
| 5 | Divide | 12 | Add Total | 19 | Ratio2 |
| 6 | Max of A or B | 13 | Add Grand Total | | |

Note:

Math channel for High voltage/current model is called Channel P and it only uses the multiply function to calculate the apparent power ($P = V * A$). Constant Factor (F) is available for power factor correction to obtain the real power.

