Shark® 200 Meter Quickstart Guide
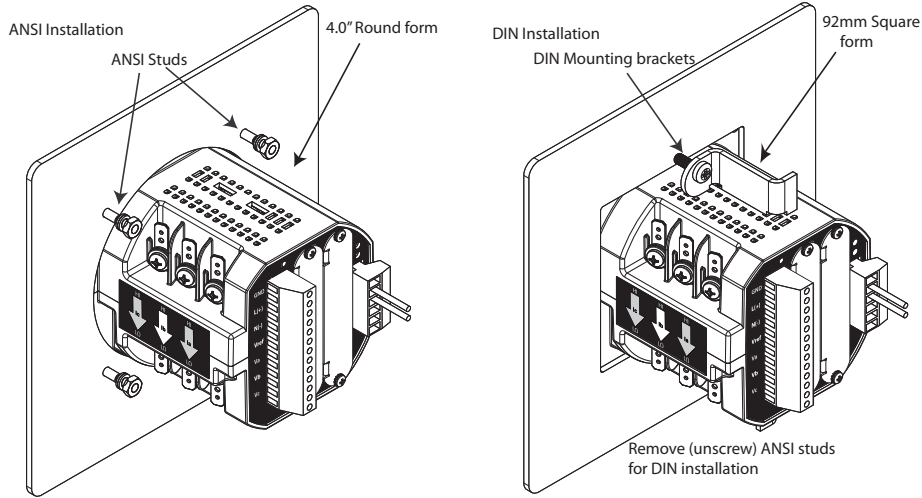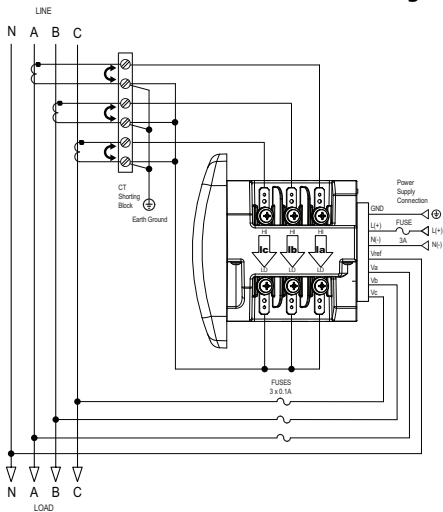
NOTE: Do not overtighten nuts. The maximum installation torque is 0.4 Newton-Meter.

Mechanical Installation

ANSI Installation

ANSI Studs

4.0" Round form

DIN Installation

DIN Mounting brackets

92mm Square form

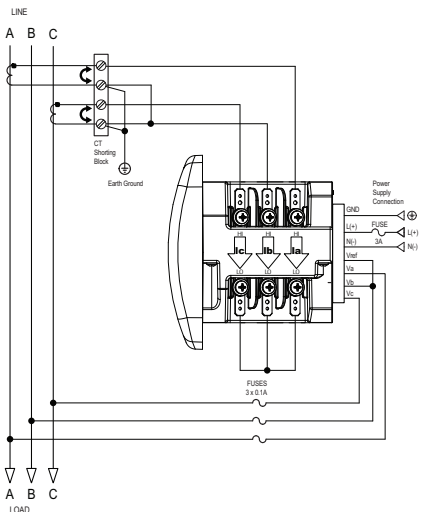Remove (unscrew) ANSI studs for DIN installation

Electrical Installation: Select diagram for your application.
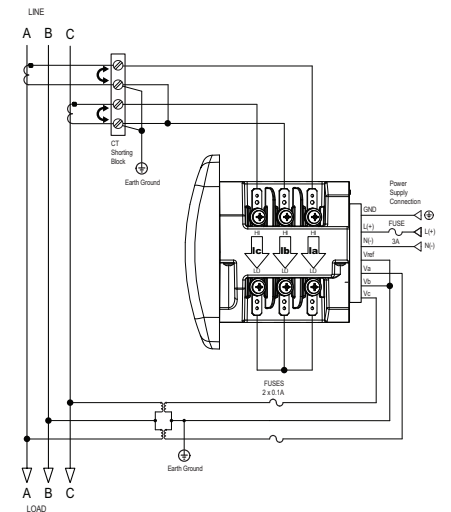
WYE direct, 3 phase, 4 wire
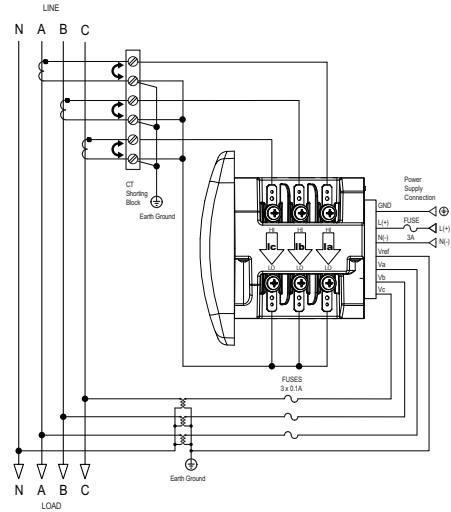
WYE with PTs, 3 phase, 4 wire
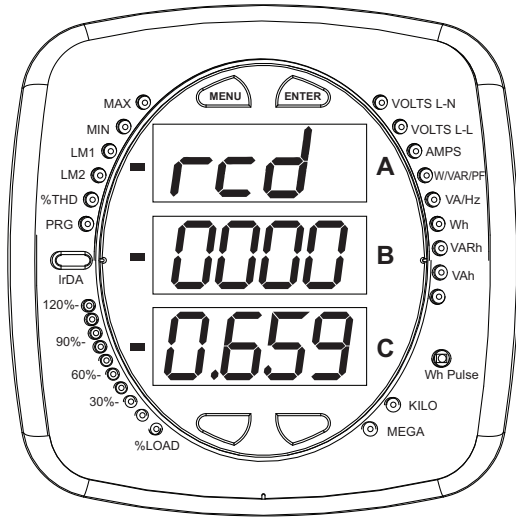
Delta direct, 3 phase, 3 wire

Delta with PTs, 3 phase, 3 wire

NOTE: Other wiring configurations are available. See the full Manual on the enclosed CD.
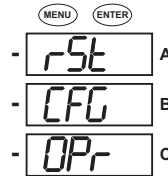
Program Settings Using the Faceplate Buttons:
(MENU, ENTER, DOWN ARROW, RIGHT ARROW)

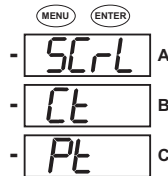See the figure on the right for the location of the faceplate buttons.

Access Configuration Mode:

1. Push the **MENU** button - you will see the display on the right; rSt will be blinking.

2. Press the **DOWN ARROW** once. CFG (Configuration) moves to the top of the display.

3. Press the **ENTER** button. You will see the Configuration menu, shown on the right.

4. Press the **DOWN ARROW** and then press the **ENTER** button. You will see the CT numerator setting screen (Ct-n). The current CT numerator is shown in the second line. To change the setting, press the **DOWN ARROW** until the value you want is displayed. Then press the **RIGHT ARROW** to move to the next digit. Repeat until the setting is done.
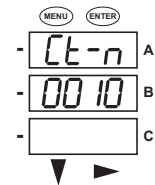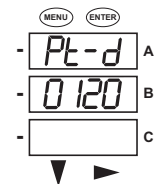
5. Press the **ENTER** button to go to the CT denominator screen (CT-d). This setting is display only - it can't be changed.
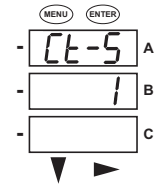
6. Press the **ENTER** button to go to the CT Scaling setting screen (CT-S). The current Scaling is shown in the second line. Press the **DOWN ARROW** to choose another value. You can choose 1, 10, or 100.
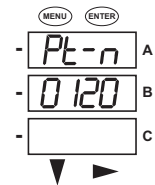
7. Press the **ENTER** button to go to the PT numerator setting screen (Pt-n).The current PT numerator is shown in the second line. To change the setting, press the **DOWN ARROW** until the value you want is displayed. Then press the **RIGHT ARROW** to move to the next digit. Repeat until the setting is done.

8. Press the **ENTER** button to go to the PT-denominator screen (Pt-d). The current PT denominator is shown in the second line. To change the setting, press the **DOWN ARROW** until the value you want is displayed. Then press the **RIGHT ARROW** to move to the next digit. Repeat until the setting is done.

9. Press the **ENTER** button to go to the PT Scaling setting screen (PT-S). The current Scaling is shown in the second line. Press the **DOWN ARROW** to choose another value. You can choose 1, 10, 100, or 1000.
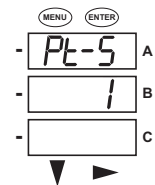
   NOTE: See example CT and PT Settings beginning on page QS-4.

10. Press the **ENTER** button to go to the Connection setting screen (Cnct). The current setting is shown in the second line. Press the **DOWN ARROW** to choose another value. You can choose 3 EL (element) WYE, 2 Ct del (Delta), or 2.5 EL WYE.

11. Press the **ENTER** button to go to the meter Address setting screen (Adr). The meter's current address is shown in the second line. To change the setting, press the **DOWN ARROW** until the value you want is displayed. Then press the **RIGHT ARROW** to move to the next digit. Repeat until the setting is done. Valid addresses are from 001 through 247. **IMPORTANT! If you are using the Ethernet option (INP100S)** do not change any settings - leave the address as 001.**

12. Press the **ENTER** button to go to the meter Baud Rate setting screen (bAUd). The meter's current Baud Rate is shown in the second line. Press the **DOWN ARROW** to choose another Baud Rate. You can choose 9600 (choose this for RS485 connection), 19.2 (19200), 38.4 (38400) or 57.6 (57600). **IMPORTANT! If you are using the Ethernet option,** do not change any settings - leave the Baud Rate as 57.6.**

13. Press the **ENTER** button to go to the meter Protocol setting screen (Prot). The meter's current Protocol is shown in the second and third lines. Press the **DOWN ARROW** to choose another communication Protocol. You can choose Mod rtU (Modbus RTU; choose this for RS485 connection), Mod ASCI (Modbus ASCII), or dnp (DNP 3.0). **IMPORTANT! If you are using the Ethernet option,** do not change any settings - leave the protocol as Mod rtU.**

14. Press the **ENTER** button to go to the Scroll setting screen (SCrL). The current setting is shown in the second line. Press the **DOWN ARROW** to choose another setting. You can choose YES (the meter readings will scroll on the display) or no (the meter readings will not scroll on the display).

15. Press the **MENU** button twice. You will see the Store Settings screen (Stor ALL?) The default setting is YES. To save the settings you've made, press the **ENTER** button. You will see the confirmation screen (Stor ALL done) and then the meter resets.

    NOTE: If you do not want to save your settings, press the **RIGHT ARROW.** YES changes to no. Press the **ENTER** button.
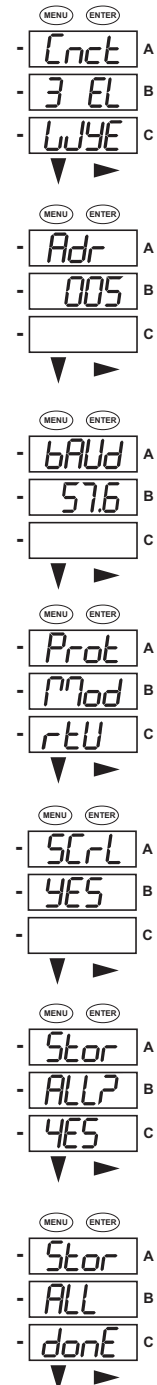
**The Shark® 200 meter's Ethernet communication settings are the default settings of Address 1, Baud Rate 57.6 and Protocol Mod rtU. See the *Shark® 200/200T Meter Installation and Operation Manual* on the enclosed CD for additional configuration instructions for the Shark® 200 meter's Ethernet port

Example CT Settings:

200/5 Amps:	set the Ct-n value as 200, Ct-S value as 1.
800/5Amps:	set the Ct-n value as 800, Ct-S value as 1.
2000/5 Amps:	set the Ct-n value as 2000, Ct-S value as 1
10,000/5 Amps:	set the Ct-n value as 1000, Ct-S value as 10.

Example PT Settings:

14400/120 Volts:	set the Pt-n value as 1440, Pt-d value as 120, Pt-S value as 10.
138000/69 Volts:	set the Pt-n value as 1380, Pt-d value as 69, Pt-S value as 100.
345000/115 Volts:	set the Pt-n value as 3450, Pt-d value as 115, Pt-S value as 100.
345000/69 Volts:	set the Pt-n value as 0345, Pt-d value as 69, Pt-S value as 1000.

NOTE: For additional wiring options and programming information, refer to the *Shark® 200/200T Meter Installation and Operation Manual* and the *Communicator EXT™ 4.0 and MeterManager EXT Software User Manual* on the enclosed CD.

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