Shark® 100 Meter Quickstart Guide

**Mechanical Installation**  
NOTE: Do not overtighten nuts. The maximum installation torque is 0.4 Newton-Meter.

**Electrical Installation:** Select diagram for your application.

- **WYE direct, 3 phase, 4 wire**
- **Delta direct, 3 phase, 3 wire**
- **WYE with PTs, 3 phase, 4 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 the next page.
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 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. If you are using the Ethernet option (INP10), do NOT change anything on this screen.

12. Press the ENTER button to go to the 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). If you are using the Ethernet option, do NOT change anything on this screen.

13. Press the ENTER button to go to the 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). If you are using the Ethernet option, do NOT change anything on this screen.

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.

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 345, Pt-d value as 69, Pt-S value as 1000.

**NOTE:** For additional wiring options and programming information, refer to the *Shark® 100/100T/100B Meter Installation and Operation Manual* and the *Communicator EXT 3.0 User Manual* on the enclosed CD.