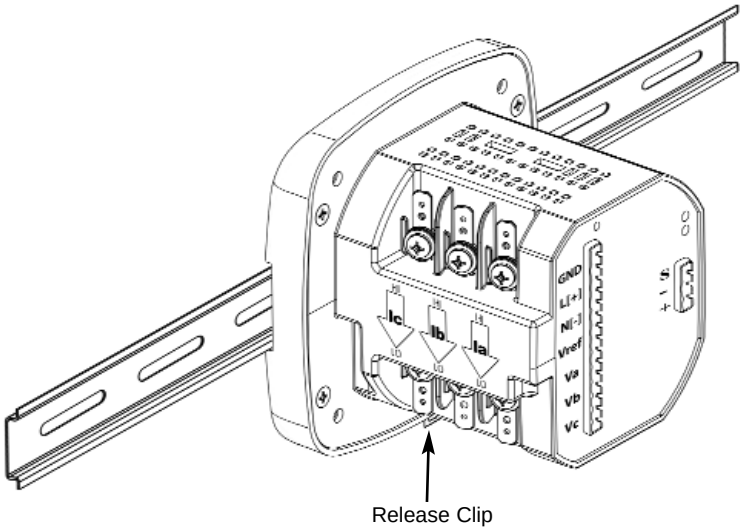
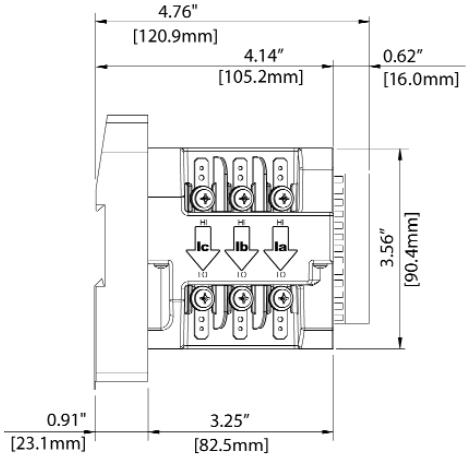
Quick Start Guide for SHARK Series Meters

Shark 100T Transducer

■ Mechanical Installation



DIN Rail Installation

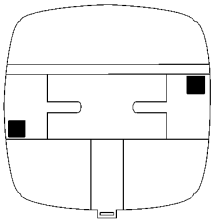


Shark 100T Dimensions

■ Installation Steps

Slide top of groove of meter onto DIN Rail. Press gently until the meter clicks into place.

If mounting with DIN Rail provided, use Black Rubber Stoppers (also provided) shown below.

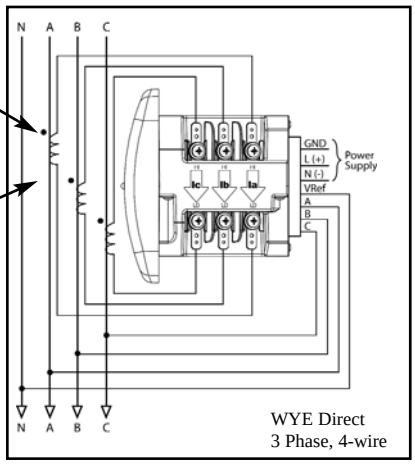


To remove meter, pull down on Release Clip.

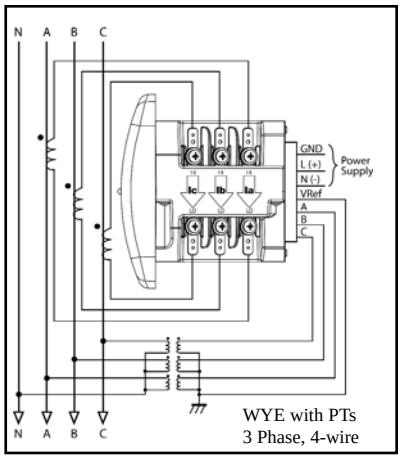
■ Electrical Wiring

Select diagram to meet your application.

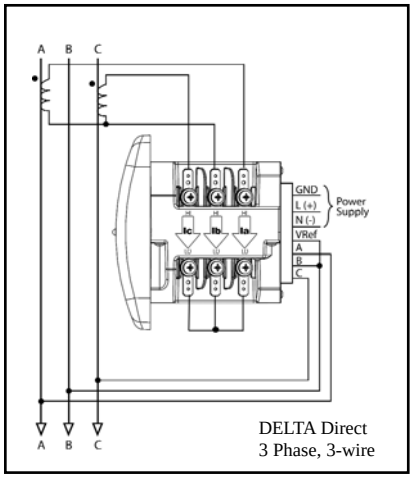
NOTE: Other wiring configurations are available. See the full Manual on the enclosed CD.



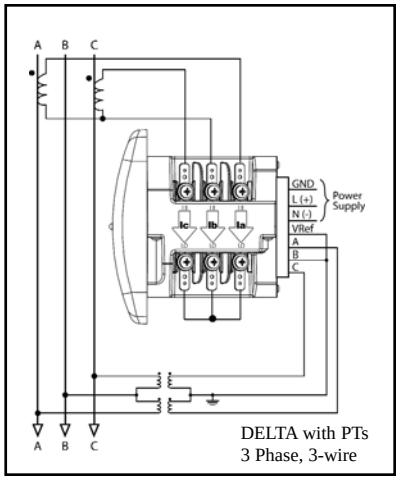
WYE Direct
3 Phase, 4-wire



WYE with PTs
3 Phase, 4-wire

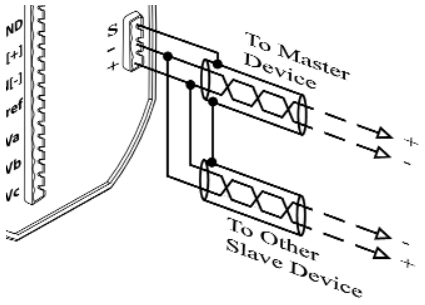


DELTA Direct
3 Phase, 3-wire



DELTA with PTs
3 Phase, 3-wire

Program the Shark 100T Using RS-485



Communication Wiring

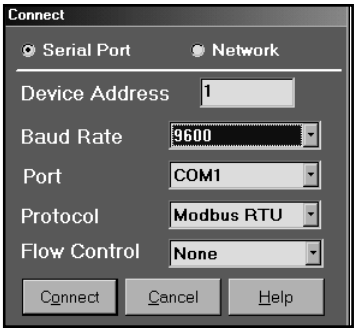
The Shark 100T meter's RS-485 port uses standard 2-wire, Half Duplex Architecture. Connect to Master and Slave devices as shown (+ to +, - to -).

Factory Initial Default Settings

When the Shark 100T is powered up, for 10 seconds you can connect to the meter using the Factory Default Settings (even if the Device Profile has been changed). After 10 seconds the Device Profile reverts to the actual Device Profile in use. This is one way you can always connect to the meter.

The Factory Initial Default Settings are:

Device Address:	1
Baud Rate:	9600
Protocol:	Modbus RTU

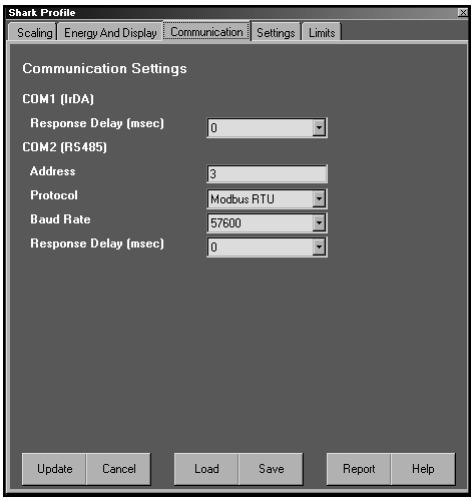


Connection Steps

1. Open **Communicator EXT** software.
2. Click **Connect** on the tool bar. The Connect screen appears. Make sure your settings match these (use pull-down windows). Click **Connect**. Device Status screen confirms the connection.
3. Click OK. The main screen of Communicator EXT appears.

Configuration Steps

4. Click the **Profile** button on the tool bar. A set of programming screens appears.
5. Click the **Communications** tab and select settings based on your application.
6. Click the **Scaling** tab and select settings based on your application.



Communications Settings

COM1 (IrDA): Response Delay (0-750 msec) Not applicable on Shark 100T

COM2 (RS-485):

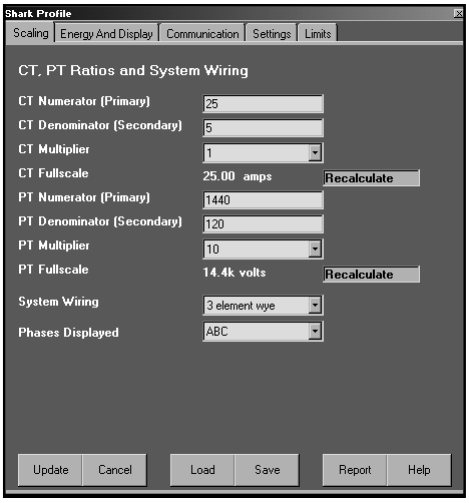
Address (1-247)
Protocol (Modbus RTU, ASCII or DNP)
Baud Rate (9600 to 57600)
Response Delay (0-750 msec)

Scaling (CT, PT Ratios and System Wiring)

CT Numerator, Denominator, Multiplier, CT Fullscale (Calculated automatically)
PT Numerator, Denominator, Multiplier, PT Fullscale (Calculated automatically)
System Wiring: Use pull-down menu to select
Number of Phases: One, Two or Three

NOTE: Voltage Full Scale = PT Numerator x PT Multiplier
Current Full Scale = CT Numerator x CT Multiplier

WARNING: Specify Primary and Secondary Voltage in Full Scale (NOT Ratios).



Example CT Settings:

200/5 Amps:	Set the Ct-n value for 200, Ct-S value for 1.
800/5 Amps:	Set the Ct-n value for 800, Ct-S value for 1.
2,000/5 Amps:	Set the Ct-n value for 2000, Ct-S value for 1.
10,000/5 Amps:	Set the Ct-n value for 1000, Ct-S value for 10.

Example PT Settings:

14,400/120 Volts:	Pt-n value is 1440, Pt-d value is 120, Pt-S value is 10.
138,000/69 Volts:	Pt-n value is 1380, Pt-d value is 69, Pt-S value is 100.
345,000/115 Volts:	Pt-n value is 3450, Pt-d value is 115, Pt-S value is 100.
345,000/69 Volts	Pt-n value is 345, Pt-d value is 69, Pt-S value is 1000.

Update Device

7. When changes are complete, click the **Update** button to send a new profile to the Shark 100T meter.
8. Click **Cancel** to Exit the profile (or) click other tabs to update other screens.
9. Use Communicator EXT to communicate with the device and perform required tasks.

NOTE: For further details and additional programming screens (**Password, Limits, Energy and Display**), refer to the *Shark User's Manual & Communicator EXT 3.0 Software Manual* on the enclosed CD.