

TRIDENT SERIAL COMMUNICATION ADAPTERS

RS-232 and RS-422/485 Adapters

To communicate with a computer or other data terminal equipment an RS-232 or RS-422/485 adapter option is required; see Ordering Information for details.

SPECIFICATIONS

General

CABLE	7' (2.1 m) Standard Modular Cable provided with adapter
COMMUNICATION PROTOCOL	PDC proprietary, application developers should contact the factory for information
STATUS INDICATION	Separate LEDs for power (P), transmit (TX), and receive (RX)
SOFTWARE	Supported by PDC MeterView software for data acquisition and meter configuration

RS-232 Adapter

COMPATIBILITY	Compatible with EIA-232
CONNECTORS	PC compatible 9-pin D subminiature connector and RJ11 (adapter to meter)
DISTANCE	Adapter to meter: 7' (2.1 m) max. Adapter to computer: 50' (15 m) max. (Serial interface cable not provided)

RS-422/RS-485 Adapter

COMPATIBILITY	Compatible with EIA-422 and EIA-485
CONNECTORS	Removable 5-pin screw terminal connector and RJ11 (adapter to meter)
DISTANCE	Adapter to meter: 7' (2.1 m) max. Adapter to computer: 3,937' (1,200 m) max.

ORDERING INFORMATION

Model	Description
PDA7232	RS-232 Serial Adapter with PDA7420 Modular Cable Included
PDA7422	RS-422/485 Serial Adapter with PDA7420 Modular Cable Included
PDA7502	MeterView Version 2.0 Software

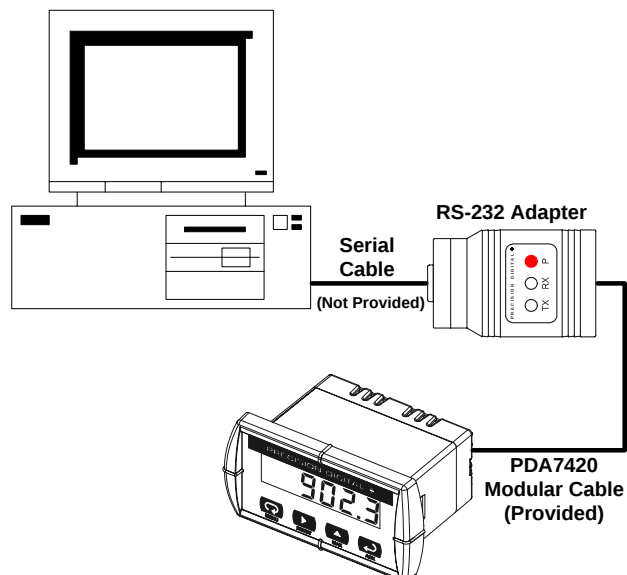


Figure 1. RS-232 Adapter Connections

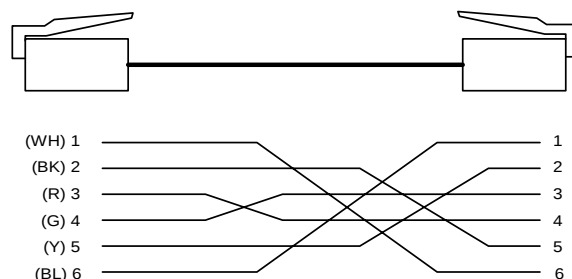


Figure 2. Standard Modular Cable Wiring

When using more than one meter in a multidrop or multipoint mode, each meter must be provided with its own unique address. The address may be programmed from 00 to 99.

Serial Communication Address (ser1)

Address for Trident Meter is set to 00 at the factory

To change meter address:

1. Press and hold **Right** arrow and **Menu** buttons for three seconds to access Advanced Features menu of the meter.
2. Press **Up** arrow until Serial (SER) menu is displayed and press **Enter/Ack**, Addr is displayed.
3. Press **Enter/Ack** to change meter address using **Right** and **Up** arrow buttons. Press **Enter/Ack** to accept.
4. Press **Menu** button to exit and return to Run Mode.

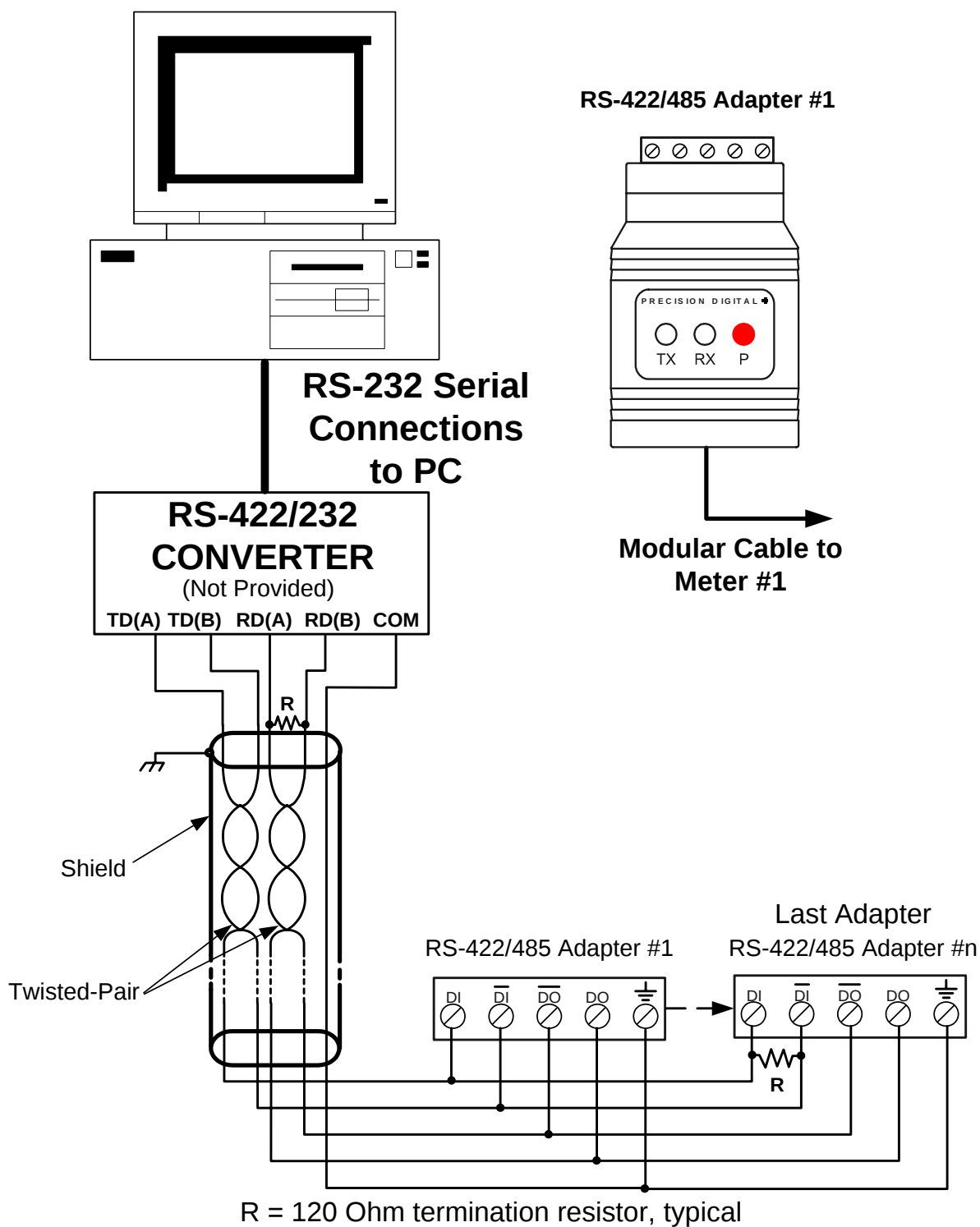


Figure 3. Multipoint, RS-422 Wiring

Notes:

1. Termination resistors are optional and values depend on the cable length and characteristic impedance. Consult the cable manufacturer for recommendations.
2. Recommended RS-422/485 to RS-232 Converter: B&B Electronics Model 485TBLED (www.bb-elec.com).

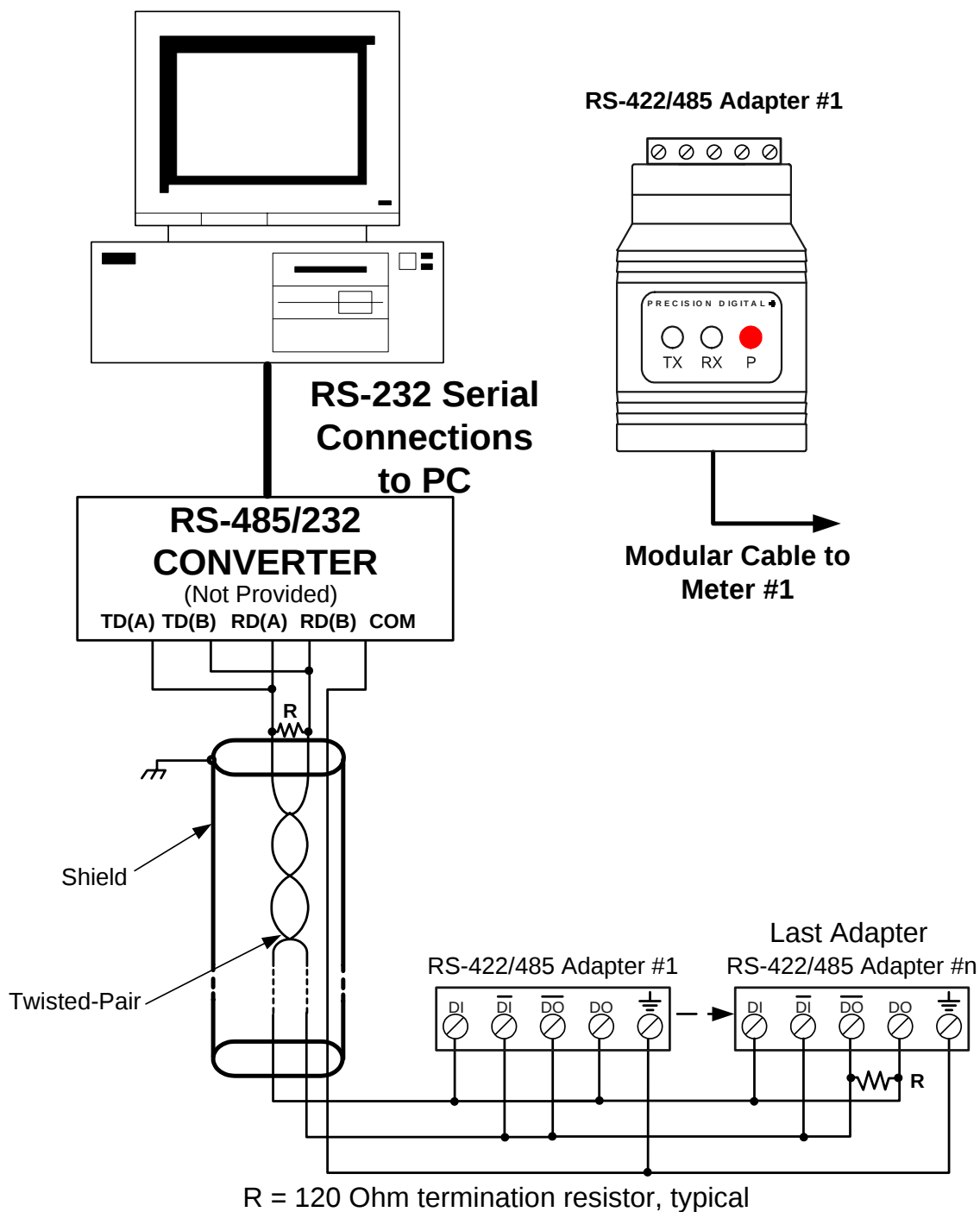


Figure 4. Multidrop, RS-485 Wiring

Notes:

1. Termination resistors are optional and values depend on the cable length and characteristic impedance. Consult the cable manufacturer for recommendations.
2. Recommended RS-422/485 to RS-232 Converter: B&B Electronics Model 485TBLED (www.bb-elec.com).

