

# Instruction Sheet

## Rugged TROLL<sup>®</sup> 200 Cable

### Overview

Rugged TROLL 200 cable connects a Rugged TROLL 200 or Rugged BaroTROLL Instrument directly to a controller or logger for communications. Rugged TROLL 200 cable is non-vented and is available in the following options.

- Top-of-Well Cable Connector and RS485 Modbus wiring
- Stripped-and-Tinned termination and RS485 Modbus wiring
- Stripped-and-Tinned and SDI-12 wiring

The durable fitting on the cable connects to the probe body. The Top-of-Well Connector fits with a Rugged TROLL Communication Device and allows connection to a computer. Stripped-and-Tinned versions connect to a PLC or logger and provide external power to the instrument.

### Cable Specifications

Jacket options	TPU (Thermoplastic Polyurethane)
Conductors	4 conductors, 24 AWG, polypropylene insulation
Diameter	Cable, 5.1 mm (0.200 in.); Connector, 26.1 mm (1.03 in.)
Minimum bend radius	5x cable diameter 25.4 mm (1.0 in.)
Break strength	150 lbs (68 kg)

### SDI-12 Cable Lengths

- 5.0 m (16.5 ft)
- 15.2 m (50 ft)
- 30.5 m (100 ft)
- 61.0 m (200 ft)\*

\*All cables 61 m (200 ft) and longer are supplied with spools.

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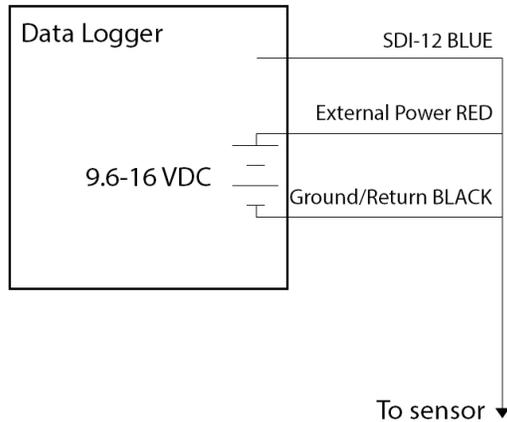
## RS485 Modbus Cable Lengths

Cable is available in custom lengths up to 304.8 m (1000 ft) and can be ordered with stripped-and-tinned termination or the top-of-well cable connector.

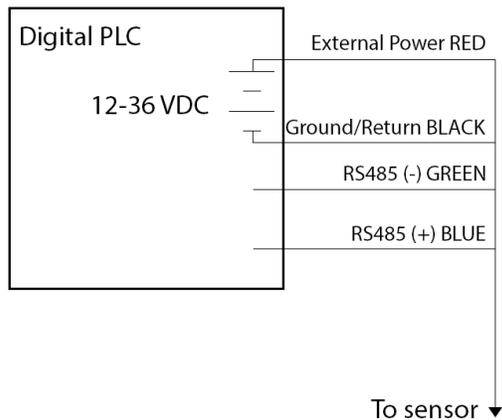
## Connections

Trim and insulate unused cable wires. The shield should be wired to a chassis ground or earth ground.

### SDI-12



### Modbus Master (RS485 built in)



## Communications

The device automatically switches between Modbus and SDI-12 modes depending on which cable is in use. Modbus and SDI-12 communications are strictly dependent on the cable type that was purchased.