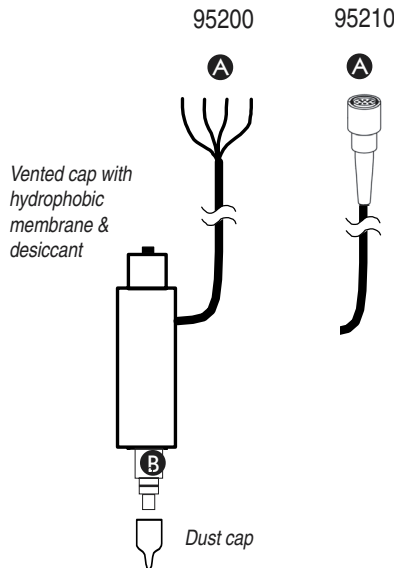


**Information Sheet**

Catalog No. 95200, 95210

# MP TROLL 9500 SDI-12 ADAPTER


**APPLICATION**

Converts RS-485 signals from the MP TROLL 9500 to SDI-12 for processing by an SDI-12 data recorder. May be located up to 200 ft (61 m) from the data recorder. Submersible cable may be up to 300 ft (91 m)—Minimum SDI-12 voltage (9.6 V) can power a TROLL 9500 on 170 ft (52 m) of cable; longer cables require a higher voltage supply. The data recorder or an external power supply may provide power to the 12 V line.

**PHYSICAL DESCRIPTION**

Material	PVC, nylon, polyurethane, titanium
Size	1.15 in (2.92 cm) O.D., 5.25 in (13.3 cm) long
Cable	3 ft (0.9 m), 3-wire vented cable
Max. submersible cable length	up to 300 ft (91 m), depending on power supplied; see table
Wetted materials	Weatherproof, not designed for submersion
Temperature range	Operating: -40°C to 70°C (-40°F to 158°F) Storage: -55°C to 125°C (-70°F to 257°F)

**SIGNALS**

Input	Approx. 9.6 - 16 VDC
Output	Approx. 9.6 - 12 VDC
Communication	Multi-drop serial SDI-12, ASCII 7 bits, even parity, 1 stop bit

**CONNECTIONS**

- Ⓐ 3-conductor pigtail (plus shield) for connection to the terminals of an SDI-12 data recorder. WHITE = serial data line, BLACK = ground, RED = 12 V supply line. The shield (green) should be terminated (grounded) at the data recorder OR
- Ⓐ 9-pin military connector for data loggers so provided
- Ⓑ Twist-lock connector (male) connects to the instrument's Rugged Cable

Rugged Cable length		Power supply requirement
feet	meters	
170	52	9.6 V
180	55	9.8 V
190	58	9.9 V
200	61	10.1 V
210	64	10.3 V
220	67	10.4 V
230	70	10.6 V
240	73	10.8 V
250	76	10.9 V
260	79	11.1 V
270	82	11.3 V
280	85	11.4 V
290	88	11.6 V
300	91	11.8 V

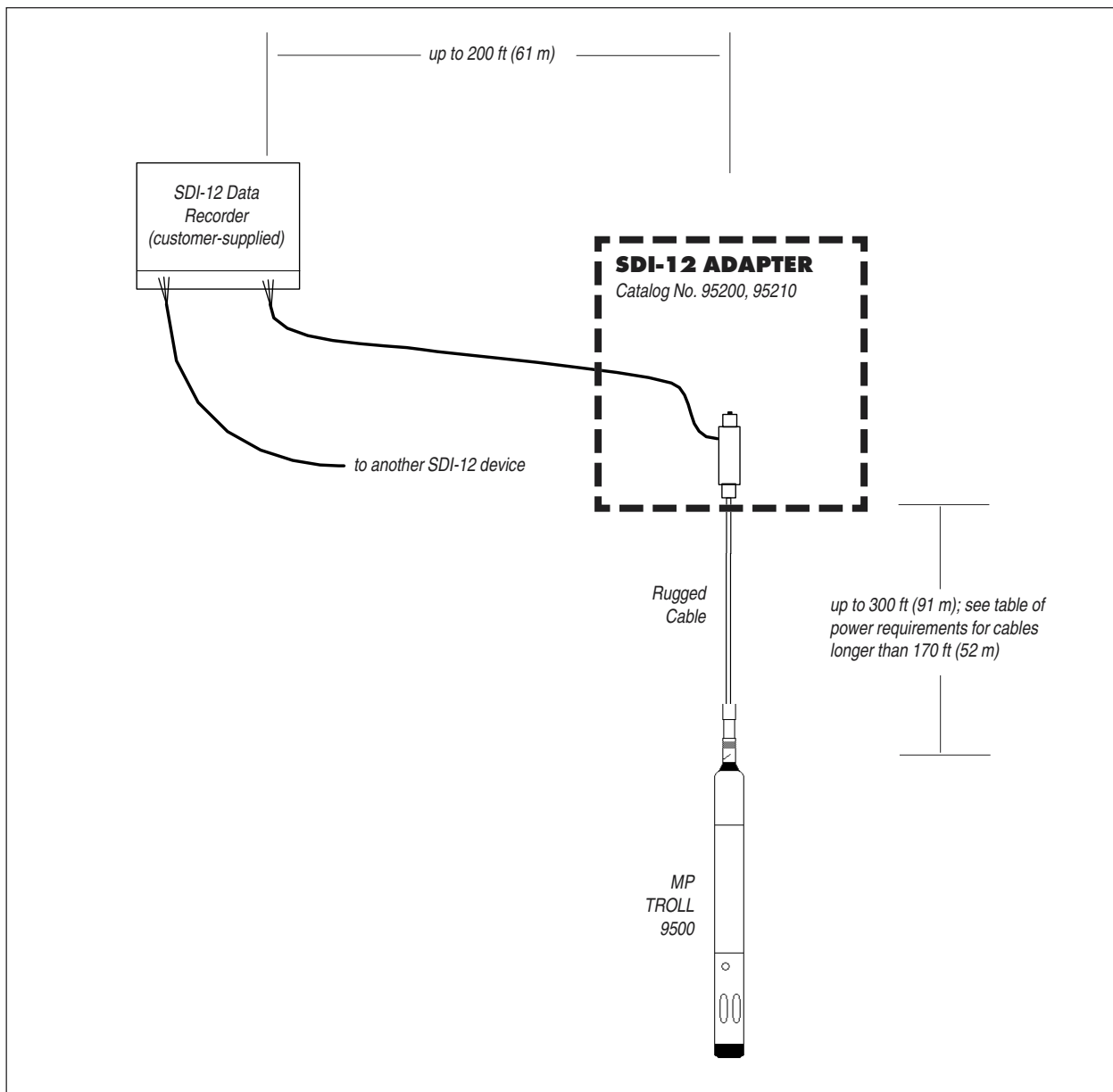
**ACCESSORIES**
**CATALOG NO.**

Vented caps with membrane & desiccant (5) .....	27480
Desiccant replacement kit (10) .....	29040

(over)

**GUIDELINES & PRECAUTIONS**

- Calibrate the water-quality sensors using Win-Situ or Pocket-Situ; SDI-12 protocols do not support calibration
- The Adapter is weather-resistant but not completely waterproof. A protective enclosure is recommended
- Determine voltage available at the Adapter before using with Rugged Cable longer than 170 ft (52 m). Refer to the table on the front of this sheet
- Not for use with a miniTROLL, MP TROLL 9000, or Level TROLL



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