

Level Troll 700

Specifications

General:

Operating temperature range	-20 to 80C
Dimensions	18.3 mm (0.72 in) OD, 21.6cm (8.5 in) long
Weight (includes hanger)	0.197 kg (0.43 lb)
Output options	Modbus (RS-485/232), SDI-12, 4-20mA
Housing material	Titanium
Nose cone material	Black Delrin (R)

Power

Internal battery	3.6V Lithium
Typical life*	5 yrs or 2-million data records**
External power	8-36VDC

*Whichever comes first. See battery guide for details.

Logging

Memory / data records**	4 MB / 350,000+
Logging Rate	User selectable from 0.25 sec -- 49 days
Modbus	1/2 sec
SDI-12	1/2 sec
Measurement Types	Linear, Linear Average, Event, True Logarithmic, Step Log, Fast Linear

**data record = one parameter with timestamp

Level Sensor

Type	Silicon strain gauge
Material	Vented
Accuracy, FS	Titanium
FS = Full Scale	+/-0.05% (15C)
	+/-0.1% (-5 to 50C)
	+/-0.25% (-20 to -5C & 50 to 80C)
	*** Accuracy with 4-20mA output option: +/-0.25% typical
Resolution	0.005% FS or better
Range	Vented:

- 3.5 m, 11.5 ft (34.4 kPa, 5 psi)
- 11 m, 35 ft (103.4 kPa, 15 psi)
- 21 m, 69 ft (206.8 kPa, 30 psi)
- 70 m, 231 ft (689.5 kPa, 100 psi)
- 211 m, 692 ft (2068 kPa, 300 psi)
- 351 m, 1153 ft (500 psi)

Temperature Sensor

Material	Silicon
Accuracy	+/-0.1C
Resolution	0.01C or better
Range	-20 to 80C

Rugged Cables with Twist-Lock Connectors

Connector*	Twist-Lock connector OR stripped & tinned wire
Number of conductors	6
Internal Conductor Material	Polypropylene
Diameter 6.7mm (0.265" h)	Break strength 127 kg (280 lbs)
Bend Radius	2X diameter of cable = 13.72mm / 0.54 in

Cable Types:

Vented or Non-Vented Polyurethane
Vented or Non-Vented Halogen-Free Polyurethane - LSZH rated
Vented FEP (Generic Teflon(R))