Pressalis

Datasheet

Submersible level transmitters

LT10

304 stainless submersible level transmitter



Hydrostatic probe for wells, tanks and wet wells, 1 to 50 m, with current, voltage or RS485 output.

Depth range	Output	Accuracy	Probe
0 to 1 m up to 0 to 50 m	**4 to 20 mA, voltage or RS485**	**±0.5 or ±1 % of span**	**304 stainless, 28 mm, IP68**

Overview

LT10 is a hydrostatic level transmitter that hangs on its cable in the liquid and reports depth from the pressure of the column above it. The probe is 304 stainless steel, 28 mm in diameter and 125 mm long, with a diffused silicon sensing element and a cable outlet sealed to IP68. Ranges run from 0 to 1 m up to 0 to 50 m of water.

It goes on boreholes, storage tanks, reservoirs and the wet wells of sewage pump stations, where the level drives pump start and stop or a high level alarm. In buildings it reads break tanks and storage tanks feeding constant pressure booster sets. Water, gasoline and diesel are listed media, so generator fuel tanks are in scope as well.

Output is chosen in the order code: 4 to 20 mA on two wires, 0 to 5 V or 0 to 10 V on three wires, or RS485 on four. Accuracy is ±0.5 % or ±1 % of span, medium temperature -10 to 70 °C with no freezing, and long-term stability ±0.1 % of span per year.

Specifications

Measurement

Measurement	Hydrostatic level, submersible
Depth range	0 to 1 m up to 0 to 50 m water column
Accuracy	±0.5 % or ±1 % of span
Long-term stability	±0.1 % of span per year
Sensing element	Diffused silicon

Medium and environment

Media	Water, gasoline, diesel
Medium compatibility	Liquids compatible with 304 stainless steel
Medium temperature	-10 to 70 °C, no freezing
Storage temperature	-40 to 125 °C

Electrical

Output	4 to 20 mA, 0 to 5 V, 0 to 10 V or RS485
Supply, 4 to 20 mA	9 to 30 V DC, two-wire
Supply, 0 to 5 V	9 to 30 V DC, three-wire
Supply, 0 to 10 V	15 to 30 V DC, three-wire
Supply, RS485	9 to 30 V DC, four-wire
Electrical connection	Cable outlet
Protection	IP68

Mechanical

Probe material	304 stainless steel
Probe size	28 mm diameter, 125 mm long
Mounting	Suspended on its cable, no process thread

Common configurations

Any combination from the ordering code can be quoted. Other ranges and connections on request.

Depth range	Output	Accuracy	Order code
0 to 5 m	4 to 20 mA	±0.5 % of span	**LT10-W5-I-A05**
0 to 10 m	4 to 20 mA	±0.5 % of span	**LT10-W10-I-A05**
0 to 20 m	4 to 20 mA	±0.5 % of span	**LT10-W20-I-A05**
0 to 50 m	4 to 20 mA	±0.5 % of span	**LT10-W50-I-A05**
0 to 10 m	0 to 10 V	±0.5 % of span	**LT10-W10-V10-A05**
0 to 10 m	RS485	±0.5 % of span	**LT10-W10-M-A05**
0 to 5 m	0 to 5 V	±1 % of span	**LT10-W5-V5-A1**

Ordering code

One code from each group, in this order. Example: **LT10-W1-I-A05**. Send the code and the quantity to **contact@pressalis.com** for a quote.

LT10	-	W1	-	I	-	A05
Model		Depth range		Output		Accuracy

Depth range

W1	0 to 1 m water column
W2	0 to 2 m water column
W5	0 to 5 m water column
W10	0 to 10 m water column
W20	0 to 20 m water column
W30	0 to 30 m water column
W50	0 to 50 m water column
X	Other range, state in the request

Output

I	4 to 20 mA, two-wire, 9 to 30 V DC
V5	0 to 5 V, three-wire, 9 to 30 V DC
V10	0 to 10 V, three-wire, 15 to 30 V DC
M	RS485, four-wire, 9 to 30 V DC

Accuracy

A05	±0.5 % of span
A1	±1 % of span