Pressalis

Datasheet

Submersible level transmitters

LT11

316L stainless submersible level transmitter



Gauge or sealed level probe for 316L-compatible liquids, 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**	**316L stainless, 28 mm, IP68**

Overview

LT11 is a submersible hydrostatic level transmitter for liquids compatible with 316L stainless steel. It is built as gauge or sealed gauge, on a probe 28 mm in diameter and 125 mm long with a diffused silicon sensing element and an IP68 cable outlet. Ranges run from 0 to 1 m up to 0 to 50 m, with standard steps at 1, 2, 3, 5, 10, 20 and 30 m.

It goes on boreholes, reservoirs, treated water and wastewater tanks, and the wet wells where the level drives pump control. In buildings it reads break tanks and storage tanks feeding constant pressure booster sets. Where a liquid is too aggressive for 304 stainless steel but does not call for a plastic probe, 316L is the step between LT10 and LT12.

Output is 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. Zero and span drift are each ±0.02 % of span per °C, overload is 2 x range, and medium temperature is -10 to 70 °C with no freezing.

Specifications

Measurement

Measurement	Hydrostatic level, submersible
Pressure type	Gauge or sealed gauge
Depth range	0 to 1 m up to 0 to 50 m water column
Standard ranges	1, 2, 3, 5, 10, 20, 30 m
Accuracy	±0.5 % or ±1 % of span
Overload	2 x range
Zero drift	±0.02 % of span per °C

Span drift	±0.02 % of span per °C
Long-term stability	±0.5 % of span per year
Sensing element	Diffused silicon

Medium and environment

Medium compatibility	Liquids compatible with 316L stainless steel
Medium temperature	-10 to 70 °C, no freezing
Storage temperature	-20 to 100 °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 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 3 m	4 to 20 mA	±0.5 % of span	**LT11-W3-I-A05**
0 to 5 m	4 to 20 mA	±0.5 % of span	**LT11-W5-I-A05**
0 to 10 m	4 to 20 mA	±0.5 % of span	**LT11-W10-I-A05**
0 to 30 m	4 to 20 mA	±0.5 % of span	**LT11-W30-I-A05**
0 to 10 m	RS485	±0.5 % of span	**LT11-W10-M-A05**
0 to 5 m	0 to 10 V	±1 % of span	**LT11-W5-V10-A1**

Ordering code

One code from each group, in this order. Example: **LT11-W1-I-A05**. Send the code and the quantity to **contact@pressalis.com** for a quote.

LT11	-	W1	-	I	-	A05
Model		Depth range		Output		Accuracy

Depth range

W1	0 to 1 m water column
W2	0 to 2 m water column
W3	0 to 3 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