Pressalis

Datasheet

Submersible level transmitters

LT22

Low-power level and temperature probe, RS485



One stainless probe reports liquid level to 50 m and temperature over RS485 Modbus RTU, on a 3 to 5 V supply.

Depth range	Temperature	Output	Supply
0 to 1 m up to 0 to 50 m	**-10 to 85 °C**	**RS485 Modbus RTU**	**3 to 5 V DC, 0.2 mA standby**

Overview

LT22 measures liquid level and liquid temperature in one submersible probe and reports both over RS485 with Modbus RTU. Level ranges run from 0 to 1 m up to 0 to 50 m and the temperature reading covers -10 to 85 °C. The probe is 304 stainless steel, 28 mm in diameter and 125 mm long, with an IP68 cable outlet.

It runs from 3 to 5 V DC, draws no more than 2.5 mA while measuring and drops to 0.2 mA in low-power standby. That suits battery-powered loggers and telemetry units as well as mains-powered PLCs. Level and temperature come over the same four-core shielded cable, so one probe replaces two instruments at the point.

It goes on boreholes and wells where groundwater temperature is logged with level, reservoirs, fish ponds and process water tanks. Level accuracy is ±0.5 % or ±1 % of span and operating temperature is -10 to 85 °C, with no freezing. Other supply voltages are built on request.

Specifications

Measurement

Measurement	Hydrostatic level and liquid temperature
Depth range	0 to 1 m up to 0 to 50 m water column
Temperature range	-10 to 85 °C
Level accuracy	±0.5 % or ±1 % of span
Reference temperature	25 °C

Medium and environment

Medium compatibility	Liquids compatible with 304 stainless steel
Operating temperature	-10 to 85 °C, no freezing

Electrical

Output	RS485, Modbus RTU
Supply	3 to 5 V DC
Current consumption	2.5 mA or less, standby 0.2 mA or less
Cable	Four cores plus shield
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 2 m	RS485 Modbus RTU	±0.5 % of span	**LT22-W2-A05**
0 to 5 m	RS485 Modbus RTU	±0.5 % of span	**LT22-W5-A05**
0 to 10 m	RS485 Modbus RTU	±0.5 % of span	**LT22-W10-A05**
0 to 30 m	RS485 Modbus RTU	±0.5 % of span	**LT22-W30-A05**
0 to 50 m	RS485 Modbus RTU	±1 % of span	**LT22-W50-A1**

Ordering code

One code from each group, in this order. Example: **LT22-W1-A05**. Send the code and the quantity to **contact@pressalis.com** for a quote.

LT22 Model - **W1** Depth range - **A05** 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

Accuracy

A05	±0.5 % of span
A1	±1 % of span