Pressalis

Datasheet

Submersible level transmitters

LT40

Wireless level probe with separate terminal



Stainless probe and data terminal on NB-IoT, LTE-M, 4G or LoRaWAN, powered by battery, DC supply or solar.

Depth range	Network	Battery	Other power
0 to 1 m up to 0 to 50 m	**NB-IoT, LTE-M, 4G or LoRaWAN**	**3.6 V, 12000 or 38000 mAh**	**9 to 24 V DC or solar**

Overview

LT40 pairs a stainless steel submersible level probe with a separate wireless data terminal. The probe sits in the well or tank on its cable and connects to the terminal, which takes the readings and sends them over NB-IoT or LTE-M, 4G Cat 1, or LoRaWAN. No signal cable has to run back to a panel or control room.

Power is chosen to suit the site: a 3.6 V lithium battery of 12000 mAh, or 38000 mAh in a larger case, a 9 to 24 V DC supply, 9 to 24 V DC charging a built-in 6000 mAh rechargeable battery, or a solar version with the same rechargeable battery. That covers sites with no power at all as well as pump stations with a DC supply.

It goes on remote boreholes, reservoirs, water towers, sewer and stormwater wells and river gauging points. The probe covers 0 to 1 m up to 0 to 50 m with ±0.5 % or ±1 % of span accuracy, in 304 stainless steel to IP68. LoRaWAN is offered for the EU868, US915, AU915, AS923, KR920, IN865 and RU864 frequency plans.

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

Medium and environment

Medium compatibility	Liquids compatible with 304 stainless steel
Medium temperature	-10 to 70 °C, no freezing
Probe protection	IP68

Wireless and power

Network	NB-IoT or LTE-M, 4G Cat 1, or LoRaWAN
LoRaWAN plans	EU868, US915, AU915, AS923-1 to 4, KR920, IN865, RU864
Cellular region	Stated with the order
Battery	3.6 V lithium, 12000 mAh, or 38000 mAh in a larger case
DC supply	9 to 24 V DC
DC with backup	9 to 24 V DC charging a built-in 6000 mAh rechargeable battery
Solar	Solar charging, built-in 6000 mAh rechargeable battery

Mechanical

Probe material	304 stainless steel
Probe size	28 mm diameter, 125 mm long
Terminal housing	120 x 68.5 mm, 131.5 x 75 mm over the mounting lugs

Common configurations

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

Depth range	Network	Power	Accuracy	Order code
0 to 10 m	NB-IoT or LTE-M	Battery, 12000 mAh	±0.5 % of span	**LT40-W10-NB-B12-A05**
0 to 20 m	NB-IoT or LTE-M	Battery, 38000 mAh	±0.5 % of span	**LT40-W20-NB-B38-A05**
0 to 10 m	4G Cat 1	Battery, 12000 mAh	±0.5 % of span	**LT40-W10-G4-B12-A05**
0 to 50 m	4G Cat 1	Solar	±0.5 % of span	**LT40-W50-G4-S-A05**
0 to 5 m	LoRaWAN	Battery, 12000 mAh	±0.5 % of span	**LT40-W5-LW-B12-A05**
0 to 10 m	4G Cat 1	9 to 24 V DC with battery	±1 % of span	**LT40-W10-G4-EB-A1**

Ordering code

One code from each group, in this order. Example: **LT40-W1-NB-B12-A05**. Send the code and the quantity to **contact@pressalis.com** for a quote.

LT40	-	W1	-	NB	-	B12	-	A05
Model		Depth range		Network		Power		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

Network

NB	NB-IoT or LTE-M
G4	4G Cat 1
LW	LoRaWAN, state the frequency plan in the request

Power

B12	3.6 V lithium battery, 12000 mAh
B38	3.6 V lithium battery, 38000 mAh, larger case
E	9 to 24 V DC supply
EB	9 to 24 V DC with 6000 mAh rechargeable battery
S	Solar with 6000 mAh rechargeable battery

Accuracy

A05	±0.5 % of span
A1	±1 % of span