ACC-SEN-SUBM-ABS-S3

Wildeye EasyLevel Submersible Level Sensor



Key features

- Platform barometric compensation — applied using GPS location from Wildey App
- ±0.5% full scale — calibrated and temperature compensated
- 316L stainless steel — IP68 for continuous submersion
- M12 connector plugs straight into a Wildeye NACS input, powered from the logger — no separate sensor supply

Overview

The EasyLevel submersible level sensor measures liquid level in water tanks, diesel tanks, dams, bores and open channels. It's a drop-in sensor: lower it from the top of the tank or bore until it rests on the bottom, then plug the M12 connector into a Wildeye NACS input. The logger powers the sensor, so there's no field wiring and no separate power supply.

The sensor measures absolute pressure, so it doesn't need a vented cable or a vent box. The Wildeye platform compensates for barometric pressure, and level readings appear in mywildeye. The 316L stainless steel housing and diaphragm are rated IP68 for continuous submersion.

Measurement range

Each range is absolute and includes atmospheric pressure, so the usable depth is a little less than the nominal range. The Product Variants table shows usable depth at sea level (1013 hPa). At higher altitudes, the usable depth is slightly greater.

Specifications

Measurement

Depth range	0–5, 0–10 or 0–20 m H2O (see Product Variants)
Reference	Absolute (Compensated in the Wildeye platform)
Output	4–20 mA, two-wire loop-powered
Accuracy	±0.5% full scale at 25 °C (Pressure measurement only)
Temperature effect	±1.5% full scale maximum (Zero and span, referenced to 25 °C)
Long-term stability	±0.3% full scale per year
Overpressure	150% of full scale
Supply voltage	12–30 V DC
Reverse polarity	Protected — no damage, no output while reversed

Physical

Operating temperature	-10 to +60 °C
Ingress protection	IP68, continuous submersion
Housing and diaphragm	316L stainless steel
Seal and fill	NBR, silicone oil
Sensor body	84 mm × 27 mm diameter (Approx. 250g excluding cable)
Cable	PUR, M12 5-pin overmoulded
EMC	IEC 61000-4-2, IEC 61000-4-3

Product variants

Product Code	Depth range	Usable depth at sea level	Cable length
ACC-SEN-SUBM-ABS-S3-D5M-C2.5M	0–5 m H2O	4.36 m (14.3 ft)	2.5 m (8.2 ft)
ACC-SEN-SUBM-ABS-S3-D5M-C5M5	0–5 m H2O	4.36 m (14.3 ft)	5.5 m (18.0 ft)
ACC-SEN-SUBM-ABS-S3-D5M-C10M	0–5 m H2O	4.36 m (14.3 ft)	10 m (32.8 ft)

ACC-SEN-SUBM-ABS-S3-D10M-C11M	0–10 m H2O	9.36 m (30.7 ft)	11 m (36.1 ft)
ACC-SEN-SUBM-ABS-S3-D10M-C20M	0–10 m H2O	9.36 m (30.7 ft)	20 m (65.6 ft)
ACC-SEN-SUBM-ABS-S3-D10M-C40M	0–10 m H2O	9.36 m (30.7 ft)	40 m (131.2 ft)
ACC-SEN-SUBM-ABS-S3-D20M-C20M	0–20 m H2O	19.36 m (63.5 ft)	20 m (65.6 ft)
ACC-SEN-SUBM-ABS-S3-D20M-C50M	0–20 m H2O	19.36 m (63.5 ft)	50 m (164.0 ft)

Connection

Connector	M12 male, 5 position
Cable length	2.5–50 m (see Product Variants)

PIN	WIRE COLOUR	FUNCTION
1	Brown	V+
2	White	N/C
3	Blue	4-20mA return
4	Black	N/C
5	Grey	N/C

Compatibility

Compatible loggers	Wildeye -NACS plug
Mywildeye.com Add Sensor template	ACC-SEN-SUBM-ABS-S3-D5M-CxxM ACC-SEN-SUBM-ABS-S3-D10M-CxxM ACC-SEN-SUBM-ABS-S3-D20M-CxxM