Ultrasonic level sensors

Long-Range Ultrasonic Well Water-Level Sensor, 1000 cm

Model A17-V1.0

Bracket-mounted ultrasonic well and water-level sensor with a 25-1000 cm range, ≈15° reference beam angle and UART, PWM or RS485 output.



Range	Accuracy
25–1000 cm	±(1+S×0.3%) cm
Blind zone	**Supply voltage**
0–25 cm	DC3.3–5.0 V

Features

- Blind zone 0–25 cm
- Accuracy ±(1 cm + 0.3% of distance)
- Resolution 1 cm
- DC3.3–5.0 V supply
- Temperature compensated

Applications

Well level measurement, Water-level monitoring

Specifications

Operating voltage	DC3.3–5.0 V
Static current	< 10 uA
Working parameters (note 1)	
Measuring state current	< 15 mA
Working parameters (note 2)	
Blind zone	0–25 cm
Measuring range, object	25–1000 cm
Working parameters (note 3)	
Reference beam angle	≈15°
Working parameters (note 2)	
Measuring accuracy	±(1+S×0.3%) cm
Response time	0.9–2.5 s

Measuring resolution	1 cm
Temperature compensation	Yes

Rated environmental conditions	
Storage temperature, min / typical / max	-25 / 25 / 70 °C

Rated environmental conditions (note 1)	
Storage humidity, typical / max	65% / 90% RH

Rated environmental conditions	
Operating temperature, min / typical / max	-15 / 25 / 60 °C

Rated environmental conditions (note 2)	
Operating humidity, typical / max	65% / 80% RH

Dimensions, without bracket	
Mounting hole spacing (top)	47±0.3 mm
Mounting hole offset	38.1±0.3 mm
Small holes	4-Ø2.8±0.2 mm
Bracket width	79.5±0.3 mm
Overall width	91.8±0.3 mm
Body width	67.5±0.3 mm
Bracket hole diameter	Ø4.8±0.3 mm
Hole edge distance	15±0.3 mm
Bracket height	33.5±0.3 mm
Cable length	120±10 mm
Body depth	40.8±0.3 mm
Body height	67.5±0.3 mm
Overall length	125.8±0.5 mm

Dimensions, with bracket	
Hole diameter	Ø4.8±0.3 mm
Cable length	70±5 mm
Overall height	99.9±0.3 mm
Thread inner dimension	(25.7) mm
Operating voltage	3.3-5 V
Output	UART auto / UART controlled / PWM / RS485
Standard measuring range	25-1000 cm
Reference beam angle	approx. 15°

Ordering and support

Pricing, samples, lead time and custom versions: dwinsales@163.com, +86 181 0280 8901.

Guangzhou Dwin Technology Co., Ltd., 4th Floor, Building 2, No. 4 Xingye Road, Xiaowu Second Industrial Zone, Dongyong Town, Nansha District, Guangzhou, China. Specifications are typical values and may change without notice; confirm critical values with DWIN before design-in. Revision 2026-11.