Ultrasonic level sensors

Low-Power External Ultrasonic Liquid Level Sensor, UART

Model L02-V1.0

Under-container ultrasonic liquid-level sensor with UART auto output, 20-2000 mm range, 1 uA standby current and 2.8-5 V supply for battery-powered use.



Range	Accuracy
2-200 cm	±(5+S*0.5%) mm
Output	**Blind zone**
UART auto serial	Self-adaptive mm

Features

- Non-contact measurement through the container wall
- Upper and lower limit alarm
- Self-adaptive blind zone
- Repeatability error ±1 mm
- Measuring angle 3–12 °

Applications

Sealed pressure vessel level, Toxic and corrosive liquid level

Specifications

Operating temperature	-15 to +60 °C
Storage temperature	-25 to +80 °C
Resolution	1 mm
Model (as printed)	L023MUW-V1.0
Operating voltage	2.8–5 V
Standby current	1 uA
Average current	2.5–5 mA
Blind zone	Self-adaptive mm
Detectable liquid height	20–2000 mm
Working cycle	1 S
Output	UART auto serial
Response time	1 S

Repeatability error	±1 mm
Accuracy at normal temperature	±(5+S*0.5%) mm
Measuring angle	3–12 °

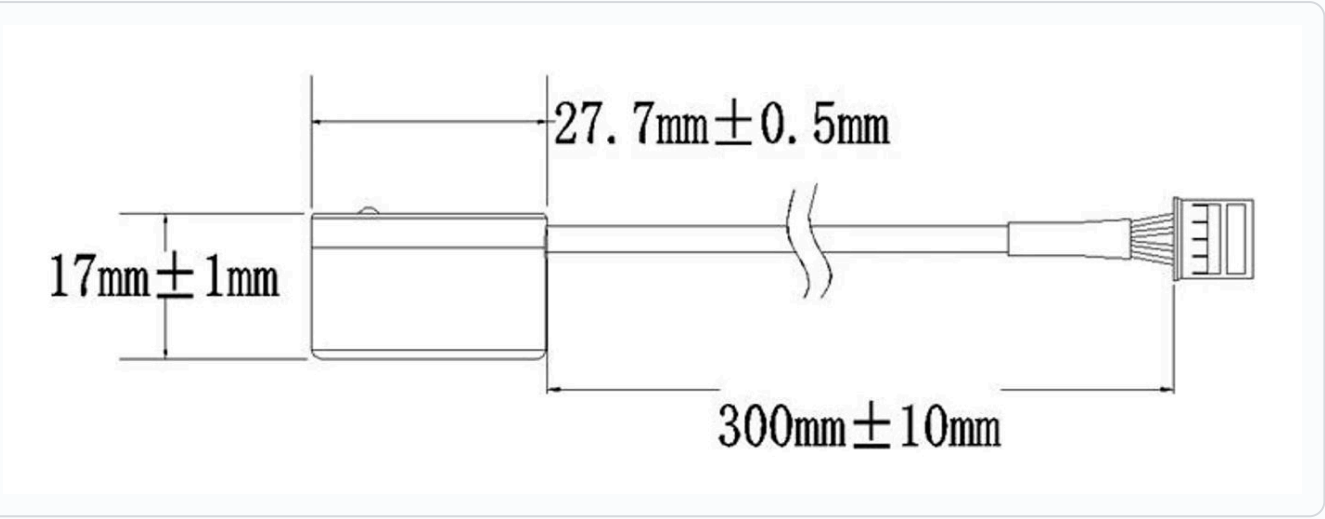
Dimensions	
Body dimension (side view)	27.7±0.5 mm
Body dimension (side view)	17±1 mm
Cable length	300±10 mm
Operating voltage	2.8-5 V
Output	UART auto output
Measuring range	2-200 cm

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.

Dimensions and wiring



Drawings are for reference. Dimensions in millimetres unless stated.