Ultrasonic level sensors

External Ultrasonic Liquid Level Sensor, Analog Voltage

Model DS1603AQ-V1.0

Under-container ultrasonic liquid-level sensor for non-invasive measurement, 50-1000 mm range with analog voltage output and ±(10 mm + 1% of distance) accuracy.



Range	Accuracy
5-100 cm	±(10+S*1%) mm
Output	**Frequency**
Voltage analog	2 MHz

Features

- Non-contact measurement through the container
- 10-36 V supply
- Center frequency 2 MHz
- Temperature compensation
- Resolution 1 mm

Applications

Sealed pressure vessel level, Toxic and corrosive liquid level

Specifications

Center frequency	2 MHz
Operating temperature	-15 to +60 °C
Storage temperature	-25 to +80 °C
Resolution	1 mm
Model (as printed)	DS1603AQ V1.0
Operating voltage	10–36 V
Average operating current	<25 mA
Blind zone	≤50 mm
Detectable liquid level height	50–1000 mm
Response time with liquid	2 S
Response time without liquid	2 S
Output	Voltage analog

Accuracy at normal temperature	±(10+S*1%) mm
Probe center frequency	2 MHz
ESD	±4/±8 KV
Operating voltage	10-36 V
Output	Analog voltage output
Measuring range	5-100 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.