Ultrasonic level sensors

Ultrasonic Level Transmitter, 4–20mA or 0–5V plus RS485, up to 15 m

Model DW-ULT

Non-contact ultrasonic level transmitter for water, oil and diesel tanks, treatment plants and open channels, with 2.5, 5, 10 or 15 m range, 4–20 mA or 0–5 V plus RS485 (Modbus RTU) output, an M68×2 thread and IP67 (IP68 optional).



Range
2.5 / 5 / 10 / 15 m

Output
4–20 mA or 0–5 V + RS485

Protection
IP67 (IP68 optional)

Features

- Non-contact ultrasonic measurement in distance or level mode
- Ranges of 2.5, 5, 10 or 15 m with a small blind zone
- 4–20 mA or 0–5 V plus RS485 (Modbus RTU), or RS485 only
- Automatic temperature compensation from 0 to 50 °C
- Reverse polarity, surge and lightning protection
- Polypropylene and glass-fibre housing, IP67 standard, IP68 optional

Applications

Water, oil and diesel tanks, Pump control in tanks, Water treatment plants, Food and chemical industries, Rivers, channels and lakes

Specifications

Performance

Measuring principle	Ultrasonic, non-contact
Measuring range	2.5 m / 5 m / 10 m / 15 m (others on request)
Blind zone	≤200 mm (2.5 m and 5 m); ≤300 mm (10 m); ≤500 mm (15 m)
Accuracy	0.5% F.S. (typical); 0.25% F.S. (on request)
Beam angle	12°

Measuring mode	Distance (default) or level
Response time	0.5 s (2.5 m, 5 m), 1 s (10 m), 2 s (15 m); adjustable 0.5–10 s
Temperature compensation	Automatic, 0–50 °C

Output	
Output signal	4–20 mA + RS485 / 0–5 V + RS485 / RS485 only / 4–20 mA / 0–5 V (analog 3-wire)
Communication protocol	Modbus RTU over RS485
Baud rate	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps

Electrical	
Supply voltage	24 V DC (standard); 12 V DC (on request)
Operating current	≤300 mA
Protection	Reverse polarity, surge and lightning protection

Mechanical	
Installation method	Nut clamping or screw-in, M68×2 thread
Housing material	Polypropylene + glass fibre
Dimensions	Ø75 mm max. × 104 mm; M20×1.5 cable gland
Cable length	Without cable, 1 m or to order

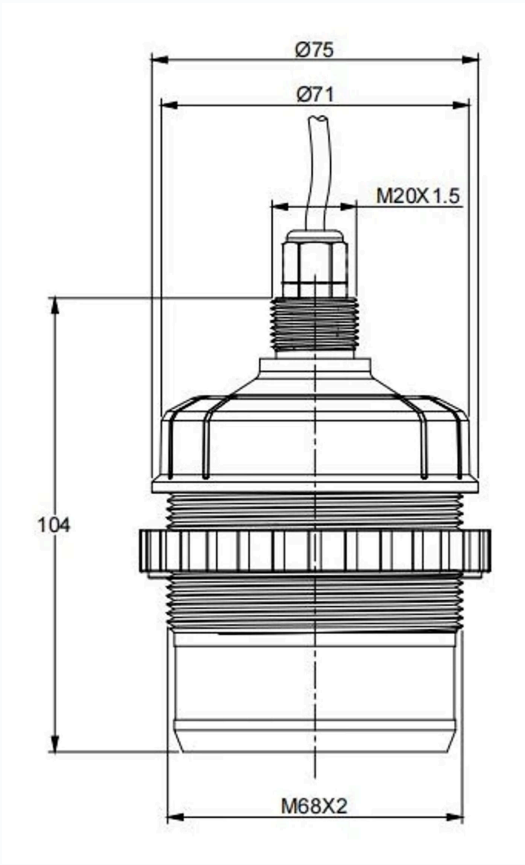
Environmental	
Operating temperature	-10 to +50 °C
Ingress protection	IP67 (standard); IP68 (optional)

Ordering and support

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

Guangzhou Dwin Technology Co., Ltd., 4th Floor, Building 2, No. 4, Xingye Street, Xiaowu, 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.