

MD-UL Universal Ultrasonic Level Gauge

TECHNICAL CHARACTERISTICS:

- ✓ Optional 4–20mA / RS485 and other output
- ✓ Optional GPRS wireless output
- ✓ Backup and restore setting parameters
- ✓ Arbitrary adjustment of analog output
- ✓ With digital filtering and echo recognition
- ✓ Can manually set fixed interference filtering function
- ✓ Support custom serial data format (selected when order)
- ✓ Supports custom mathematical function operations



MD-UL Universal ultrasonic level meter is a general-purpose ultrasonic level meter. It implements a fully digital, humanized design concept, with perfect material / liquid level measurement and control, human-machine communication and data transfer functions.

The liquid level gauge adopts engineering plastic ABS waterproof shell, and the case is small and sturdy. The main chip uses dozens of related special integrated circuits such as imported industrial-grade, single-chip microcomputers, digital temperature compensation and ultra-wide voltage input voltage stabilization.

The product is rich in functions and can add modules to achieve other functions (such as Bluetooth, GPS communication, etc.) according to customer request. Having strong anti-interference, it can set up and down nodes and online output adjustment arbitrarily, with on-site display, select analog, switch and RS485, interfaces easily with the related facilities.

It has high reliability, no pollution, stable performance, and can meet most liquid level and material level measurement requirements without contacting industrial media. It completely solves the shortcomings of entanglement, blockage, leakage, media corrosion, and inconvenience caused by traditional measurement methods such as pressure, capacitance and float. Therefore, it can be widely used in various fields related to material level and liquid level measurement and control.

APPLICATION:

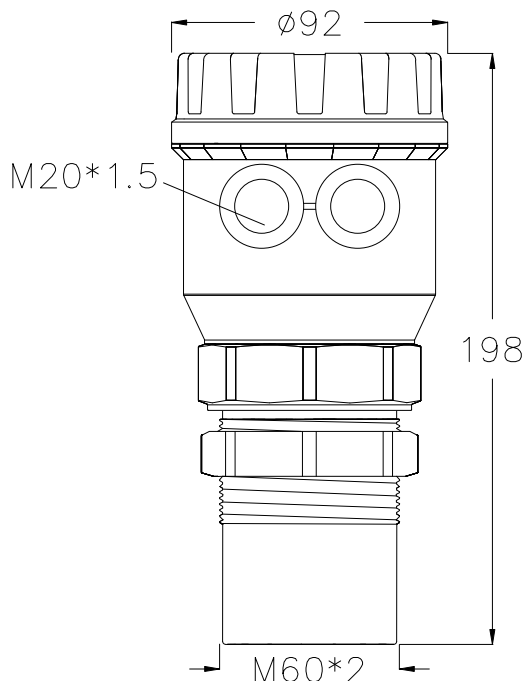
- ◇ Water and wastewater treatment
- ◇ Pump room, water collection well, biochemical reaction tank, sedimentation tank, etc. equipment
- ◇ Mortar tank, coal slurry tank, butter storage tank, stockyard or some mobile equipment
- ◇ Electricity, mining ◇ Food industry ◇ Wineries, granaries, tanks for food materials, etc.

Technical Parameters:

Range	2m、5m、8m、10m、12m、15m、20m、25m、30m(Selected when ordering)
Dead zone	<0.25–1.5m (Varies by range)
Launch angle	<10° (Due to different sensors)
Ranging accuracy	±0.3%FS
Minimum display resolution	1mm
Frequency	20KHz~2000KHz
Accuracy	±0.3%FS
Temperature Compensation	Automatic temperature compensation
Display	OLED
Site setup	Completed by local keys
Analog output signal	4 ~ 20mA load > 300Ω; 0~5V; 0~10V
Digital output	RS485(Support Modbus RTU protocol)
Wireless transmission	Optional GPRS wireless communication
Switch output	Two NPN / Relays(AC:5A 250V DC:10A 24V)
Operation Voltage	DC-12–24V or AC 220V
Power consumption	<1.5W
Dimensions	Φ74mm × 132mm × G1 1/2 (2m Range) Φ92mm × 198mm × M60 (5m–15m Range) Φ92mm × 270mm × DN80 nonstandard flange (20m–30m Range)
Installation interface	G1 1/2 pipe thread or Φ50mm round hole with big gong ring (2m Range) M60 × 2 or Φ61mm round hole with big gong ring (5m–15m Range) DN80 non-standard flange (20–30m Range)
Shell material	ABS plastic, nylon
Incoming cable	User-defined length (Built-in terminal block)
Electrical connection	M20 × 1.5
Keyboard	Three touches A, B, C buttons
IP rate	IP65(Customizable higher protection levels)
Explosion-proof grade	Exiall BT4Gb(Selected when ordering)
Working environment	Temperature and pressure
Storage temperature	≤80%RH No condensation

Dimensions:

UNIT:mm



SELECTION GUIDE:

MD — UL — 2M — 2 — P2 — A — G1 — T1 — L

Model :

UL:
Ultrasonic level
gauge

Range:

2 m(2m~30m Optional)

Acc:

2: 0.2%FS
7: Customization accuracy

Power supply:

P2: 24VDC P4: 220VAC
P7: Custom power supply

Additional options :

L:LCD display
I:Intrinsically safe explosion-proof

Medium temperature :

T1(-20~80℃)

Installation mode:

G1: G1 pipe thread G2: G1 / 2 pipe thread
D50: Φ 50mm round hole with large
Gong ring (2m range)
M60: m60x2 Φ 61mm round hole with large
Gong ring (5m~15m range)
Dn80: DN80 flange (20m~30m range)

Output signal:

A:4~20mA R:RS485 V1: 0~10V V2: 0~5V
G:GPRS Wireless output

