

Ultrasonic Level Flow Meter



With HART Protocol

Description

This instrument determines the height from the bottom to the surface of the liquid under test by measuring the air propagation time, the time required for an ultrasonic wave emitted from the detector installed above the tested liquid to reflect on the level of the liquid, and then return to the detector. This product can be widely used for a high degree of measurement of the level of a variety of liquid; solid materials can also be used for distance measurement.

Model Selection

Model	Suffix Code						Description
ULM-	①	②	③	④	⑤	⑥	Ultrasonic Level Meter
Distance	XX						05: 5m 10: 10m 15: 15m 60: 60m XX: On request
Power Supply		AC					220V AC
		DC					24V DC
Output Signal			1				2-wire 4-20mA
			2				4-wire 4-20mA
Communication				1			None
				2			RS485
Relay Output					1		None
					2		One Relay Output
					3		Two Relay Output
Probe Material						PO	Polyoxymethylene
						PV	PVDF
						PT	PTFE

ULM ① 05 ② AC ③ 1 ④ 1 ⑤ 1 ⑥ PT

- ① 05: 0...5 meter
- ② AC: 240V AC power supply
- ③ 1: 2 wire 4-20mA output
- ④ 1: No communication
- ⑤ 1: No relay output
- ⑥ PT: PTFE material

Technical Data

Maximum Measurable Distance (Depending on the model)	(1)05m; (2)10m; (3)15m; (4)20m; (5)25m; (6)30m; (7)40; (8)50m (9) 60m
Accuracy	±0.25% of Rate ±0.5% of Rate
Resolution	(1)Range < 10m:05m (2)Range > 10m:10m
Frequency	40 KHz
Output Signal	4-20mA/RS485(Optional)
Power Supply	220V AC /24V DC
Case Material	PA6/ABS
Blind Area	0.2-0.9m
Maximum Load	750Ω
Ambient Temperature	-20...+55°C

Feature

- Provides reliable, accurate, and non-contact level measurement
- Non-contact technology offers no moving parts to wear, jam, corrode
- FM approved explosion-proof making it ideal for use in hazardous locations
- Easy programming with 6 digit LCD display and simple menu structure
- Output range is adjustable with choices of inputting tank dimensions or by filling and emptying the tank while calibrating and it automatically and scaling to levels it senses
- Window cover allows easy viewing of display
- Fail-safe output options and diagnostic capabilities