

Loop powered ultrasonic continuous level meter for liquids and solids

Markets

Water and wastewater
Chemical processes

Petrochemicals
Food and beverage industries

Applications

- Liquid targets, solids (grains) and Open Channel Flow (OCF).
- Storage vessels, process tanks and outdoor piles.
- Wastewater, water desalination, water treatment plants.
- Petrochemical, chemical, food and agriculture industries.
- OEM models and kit parts are available to partners.

Advanced ultrasonic performance

- Extremely short dead-zone of 15 cm / 6" (50KHz: 35cm/14").
- Range up to 8 meter / 26' (50KHz: 9.5m/31').
- Tracking rate up to 10 meters per minute.
- PVDF sensor.
- Measuring distance, level, volume and temperature.
- Automatic, dual sensor temperature compensation.
- One size fits all tank shapes and dimensions.
- Direct installation - 1.5" opening (50KHz: 2").
- USB interface for cloning and firmware upgrades.



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Gauger²

Parameter	Specifications ⁽¹⁾			
Type	Mono-block ultrasonic level meter loop powered and 4-20 output.			
Maximum range for liquids ⁽²⁾ for solids ⁽²⁾	8 meters (26') 5 meters (16')		Minimum range (dead zone)	15 cm (6")
Measurement accuracy	±1.5 mm / 0.3% of range / 0.2% of max range.		Resolution	1 mm
Tracking rate	Up to 10 meters per minute / 33' per minute.			
Reported measured values	Distance, Level, Volume, Temperature, Operating hours.			
⚙ Characteristics	Accuracy	±20µA	Error indications	3.6mA, 22mA, Hold Last Value
	HART option	4 variables /address	Representation	Level, Distance, Volume, OCF, Fixed
Additional interfaces	RS485 for digital monitoring and USB for setup, cloning and firmware upgrade.			
Temperature compensation	Automatic. Internal and external temperature sensors .			
Open channel flow	Support for 18 flumes/weirs / Manning flow formula.			
Display	Graphic LCD 64X128, viewing window 50X25mm².			
Sensor ⁽²⁾	75 KHz Full PVDF material 1.5”BSP / NPT threads			
Power supply	24VDC or 18-33VDC on ports. Loop circuit load 950Ω at 33 VDC.			
Operating temperature	-30°C to +70°C (-22°F to 158°F) (min with display: -20°C / -4°F).			
Mechanical	Material of enclosure - Plastic PC/ABS+UV protection Weight is 0.96 Kg Maximal external dimensions: Ø105 X 28 cm² + two glands			
Certifications	CE EMC, CE Safety, FCC part 15, Intrinsic Safe – Pending Seal rating IP68 (Immersed in 1 meter water for 1 hour).			
(1) All specification are subject to change without notice. Specifications are defined at controlled laboratory tests.				
(2) 50KHz model available for range to 9.5 meter (liquid) and dead zone of 35cm.				

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