

Gauger420

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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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.			
4-20 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 50X25mm ² .			
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 cm ² + 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.

info@solidAT.com
www.solidAT.com

