

# Gauger485

## Ultrasonic continuous level meter for liquids and solids with digital output

### 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

- Tracking rate up to 10 meters per minute.
- Measuring distance, level, volume, OCF and temperature.
- Automatic, dual sensor temperature compensation.
- Direct installation - 1.5" opening (50KHz: 2").
- USB interface for cloning and firmware upgrades.

Gauger485 is a perfect solution for applications interfacing an external modem, PLC or laptop. The use of serial string-based output is simple, reliable and more accurate than 4-20 analog interface. May be viewed directly on a PC or laptop, no custom software is required.



  
**SOLID**  
Applied Technologies Ltd.

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Parameter	Specifications <sup>(1)</sup>		
Type	Mono-block ultrasonic level meter loop powered and digital RS485 output.		
Maximum range for liquids <sup>(2)</sup> for solids <sup>(2)</sup>	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.		
RS485	One string record per second reporting distance, level, volume, flow, temperature (internal and external).		
Additional interfaces	USB port 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.		
Volume calculation	Cubical tanks, cylindrical vertical tanks, cylindrical horizontal tanks with or without curved sides.		
Display	Graphic LCD 64X128, viewing window 50X25mm <sup>2</sup> .		
Sensor <sup>(2)</sup>	75 KHz Full PVDF material 1.5" BSP / NPT threads		
Power supply	10.8 to 33VDC on Gauger ports.		
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 <sup>2</sup> + two glands		
Certifications	CE EMC, CE Safety, FCC part 15, Seal rating IP68 (Immersed in 1 meter water for 1 hour).		

<sup>(1)</sup> All specification are subject to change without notice. Specifications are defined at controlled laboratory tests.

<sup>(2)</sup> 50KHz model available for range to 9.5 meter (liquid) and dead zone of 35cm.



R-1 A,VILAS APPT, SANT TUKARAM  
PATH,KOPRI, THANE(E) 400 603,INDIA  
Fax: 91-22-2532 4845

®

**SPINK CONTROLS**

Phone:91-22-2532 8223/24      Email:info@spinkcontrolsindia.com  
www.spinkcontrols.com      www.spinkcontrolsindia.com