

Economic, Continuous Ultrasonic Level Measurement Gauge for Liquids and Solids

Flexible and Cost-Effective Solution

MicroScan is a low-cost, non-contact ultrasonic gauge, part of Solid AT's line of ultrasonic products, for continuous level measurement of liquids and solids in ranges of up to 5 meters (16.5ft).



The MicroScan has 4-20mA measurement output and an optional on-board LCD display for constant view of measurement results. The MicroScan's flexible design supports various types of industry applications, offering ease of installation and automatic temperature compensation. Equipped with advanced interferences trace algorithm, MicroScan delivers reliable measurement results even in problematic environments. For set-up and configuration, a hand held device called MSU (Microscan Setup Unit) is used. The MSU features a keyboard and a display for fast set-up of numerous MicroScan units in the field, thereby enabling cost-effective use of the product.

Advantages

- Low-cost solution
- Accommodates various types of applications
- Modular design to fit budget constrains
- Very easy to install
- Fast set-up and run time

Features

- For liquid and solid applications
- Blind unit (no display) or display-only unit
- MSU incorporating both display and keyboard
- Up to 5 meters (16.5ft) measurement range
- Sophisticated algorithm to overcome acoustic interferences and false echoes
- Maintenance-free

Applications

- Water & Waste water
- Chemical processes
- Petrochemicals
- Food & Beverage industries
- Pharmaceuticals
- Pulp & Paper industries
- Plastics

MicroScan™

Applications	Liquid, Solid
Measuring Ranges	Liquids: 0.25 - 5 m (0.8 - 16.5ft) Solids: 0.25 - 3.5m (0.8 - 11.5ft)
Measurement Accuracy	0.25% of measuring range*
Resolution	1 mm (0.04 inch)
Power Supply	12-28VDC (0.1A surge)
Load	750 ohm @ 28VDC
Current Output	4-20mA loop
Mounting Option	2" NPT/2" BSP
Temperature Range	-40°C to +70°C (-40°F to +158°F)
Ambient Compensation	Integral
Housing Type	Integrated (Mono-Block)
Housing Material	ABS + UV
Enclosure Rating	IP 65
Beam Angle	5° @ 3db point
Sensor Type	25 KHz
Operating Temp'	-40°C to +70°C (-40°F to +158°F)

* 0.25% or 1.25 cm, whichever is greater.



Sensor material	Stainless Steel 316L or Coated Aluminum
Sensor Housing	PP/PVDF
Display	LCD (4 digits – 7 segments) – Optional
Interface	Via detachable unit (MSU)
Weight	Approx. 0.75Kg (1.65lb)
Enclosure Dimensions	22.3x11x4.5cm (8.7x4.3x1.7in)
Certifications	CE



MSU – MicroScan Setup Unit

Display	LCD (4 digits – 7 segments)
Keyboard	4 buttons, durable
Cable	0.60 m (23.6 in)
Housing Material	ABS + UV
Dimensions	9.5 X 11 X 2.5 cm (3.7 X 4.3 X 0.98 in)
Weight	0.25 Kg (0.55lb)
Certifications	CE



INGENIEROS ASOCIADOS DE CONTROL S.L.

Tel.: 913831390
comercial@iac-sl.es

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