MonoScan®

Ultrasonic Continuous Level Measurement Device for Liquids, Solids and Open Channel Flow

More compact. More reliable. More value.

Deploying breakthrough, patented technology, MonoScan assures accurate measurements even under changing conditions. This self-calibrating product represents a unique combination of strength, performance and value.



More flexibility. More compatibility

MonoScan® is an excellent choice for measuring liquid and solid levels at ranges of up to 15 meters, with a 0.25% accuracy of measuring range. The MonoScan® single enclosure and compact sensor, ensures a full match with your installations.

Moreover, the MonoScan is the smallest ultrasonic gauging device for measuring open channel flow, incorporating 9 predefined types of weirs and flumes in its memory that assures fast and easy set-up.

Communications and Control

MonoScan® includes optional digital communication via RS 485 – Modbus and compatibility with HART protocol. It can control different devices through its three SPDT relays.

Advantages

- Direct installation on tanks, vessels and reactors
- Self-calibration to virtually all types of conditions
- Full compensation in virtually all environments
- Delivers highest accuracy even under harsh conditions
- Maintenance-free











Chemical processes

Petrochemicals

Food& Beverage industries

Water & Waste water

Pharmaceuticals

Pulp & Paper industries

Plastics





0.25% of measuring range

12-28VDC (0.1A surge)

Integrated (Mono-Block)

-40°C to +70°C (-40°F to +158°F)

-40°C to +70°C (-40°F to +158°F)

LCD (4 digits-7 segments)

Stainless Steel 316L or Coated Aluminum

750 ohm@ 28VDC

4-20mA loop

2" NPT/2" BSP

Integral

ABS + UV

5° @ 3db point

IP 65

25 KHz

PP/PVDF

N/A

N/A

N/A

3 mm (0.11 inch)

Short-Range: 0.2-5m (0.6-16 ft) Standard-Range: 0.6-15m (1.9-49 ft)

Solids -

Short-Range: 0.2-5m (0.6-16 ft) Standard-Range: 0.6-8.5m (1.9-28 ft)

Measurement Accuracy

Resolution

Power Supply

Load

Current Output

Mounting Option

Temperature Range

Ambient Compensation

Housing Type

Housing Material

Enclosure Rating

Beam Angle

Sensor Type

Operating Temp'

Sensor material

Sensor Housing

Display

Communic

Communication

Interface Relays

- 7

Trigger Points

Weight

Enclosure Dimensions

Certifications*

* Consult factory for availability



CE - EMC

ATEX: EX ia IIC T4



Up to 1.4 Kg (3.08 lb)

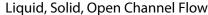
289mm x 107mm x 85mm

FM: Class I Division 1 Group A T4



CSA: Class I, II, III, Group A,B,C,D,E,F and G





Liquids and Flow

Short-Range: 0.2-5m (0.6-16 ft) Standard-Range: 0.6-15m (1.9-49 ft)

Solids -

Short-Range: 0.2-5m (0.6-16 ft) Standard-Range: 0.6-8.5m (1.9-28ft)

0.25% of measuring range

3 mm (0.11 inch)

12-28VDC (0.1A surge); 100-240 VAC 50/60 Hz 30 mA

750 ohm @ 28VDC

4-20mA

2" NPT/2" BSP

-40°C to +70°C (-40°F to +158°F)

Integral

Integrated (Mono-Block)

ABS + UV

IP 65

 5° @ 3db point

25 KHz

-40°C to +70°C (-40°F to +158°F)

Stainless Steel 316L or Coated Aluminum

PP/PVDF

LCD (4 digits - 7 segments)

RS485

Modbus-RTU, HART*

3 SPDT

6 Points

Up to 1.4 Kg (3.08 lb)

289mm x 107mm x 85mm

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