

Ultrasonic measurement Time-of-Flight Prosonic FMU44

Cost effective device for sophisticated level measurement in liquids and bulk solids for up to 20m



Mais informações e preço atual:

www.br.endress.com/FMU44

Benefícios:

- Reliable non-contact measurement
- Quick and simple commissioning via menu-guided on-site operation with four-line plain text display, 7 languages selectable
- Envelope curves on the on-site display for simple diagnosis
- Hermetically sealed and potted sensor
- Chemically resistant sensor out of PVDF
- Calibration without filling or discharging
- Integrated temperature sensor for automatic correction of the temperature dependent sound velocity

Especificações resumidas

- **Accuracy** +/- 4mm or +/- 0,2 % of set measuring range
- **Process temperature** -40 °C ... 80 °C (-40 °F ... 176 °F)
- **Process pressure absolute / max. overpressure limit** 0,7 bar ... 2,5 bar abs (10 psi ... 36 psi)
- **Max. measurement distance** 10 m
- **Main wetted parts** PVDF

Campo de aplicação: The Prosonic FMU44 sensor is suited for non-contact level measurement in fluids, pastes, coarse bulk material and flow measurement in open channels or at weirs. The two-wire or four-wire compact transmitter can be used in applications with storage tanks, agitators, on stockpiles and conveyor belts. The envelope curve can be shown on the on-site display for simple diagnosis. Linearization function

(up to 32 points) for conversion of the measured value into any unit of length, volume or flow rate.

Características e especificações

Continuous / Solids

Measuring principle

Ultrasonic

Characteristic / Application

Compact ultrasonic transmitter

Supply / Communication

2/4-wire (HART), PROFIBUS PA, FOUNDATION
Fieldbus

Accuracy

+/- 4mm or +/- 0,2 % of set measuring range

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-40 °C ... 80 °C
(-40 °F ... 176 °F)

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Main wetted parts

PVDF

Process connection

Flange
DN100, ASME 4", JIS 10K 100
DN150, ASME 6", JIS 10K 150
DN200, ASME 8", JIS 10K 200
Mounting bracket

Continuous / Solids

Blocking distance0.5 m (1.9 ft)

Max. measurement distance10 m

Communication4 ... 20 mA HART
PROFIBUS PA
FOUNDATION Fieldbus

Certificates / ApprovalsATEX, FM, CSA, INMETRO, NEPSI

Application limitsTake notice of range diagram

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Tamanho do tanque / aplicação

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Max. measurement distance

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