

Ultrasonic measurement Time-of-Flight Prosonic FMU44

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



More information and current pricing:

www.be.endress.com/FMU44

Benefits:

- 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

Specs at a glance

- **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** Max. measurement distance
- **Main wetted parts** PVDF

Field of application: 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.

Features and specifications

Continuous / Liquids

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

Ambient temperature

-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 / Liquids

Blocking distance0.5 m (1.9 ft)

ApplicationApplication

Max. measurement distanceMax. measurement distance

Communication

4 ... 20 mA HART

PROFIBUS PA

FOUNDATION Fieldbus

Certificates / ApprovalsATEX, FM, CSA, INMETRO, NEPSI

Application limitsApplication limits

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DN150, ASME 6", JIS 10K 150
DN200, ASME 8", JIS 10K 200
Mounting bracket

Blocking distance

0.5 m (1.9 ft)

Max. measurement distance

10 m

Communication

4 ... 20 mA HART
PROFIBUS PA
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Application limits

Take notice of range diagram

More information www.be.endress.com/FMU44