# Ultrasonic measurement Time-of-Flight Prosonic FMU44

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

# 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 / max. overpressure limit 0,7 bar ... 2,5 bar abs (10 psi ... 36 psi)
- Max. measurement distance Liquids: 20 m (66 ft), Solids: 10 m (33 ft)
- Main wetted parts PVDF

**Field of application:** The Prosonic FMU44 sensor is suited for noncontact level measurement in fluids, pastes, coarse bulk material and flow measurement in open channels or at weirs. The two-wire or fourwire 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

Endress + Hauser



More information and current pricing: www.endress.com/FMU44 (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-wire HART

### Accuracy

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

#### Ambient temperature

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#### Process pressure / max. overpressure limit

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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 distance** 0.5 m (1.9 ft)

Max. measurement distance Liquids: 20 m (66 ft), Solids: 10 m (33 ft)

**Communication** 4...20 mA HART

Certificates / Approvals ATEX, FM, CSA, INMETRO, NEPSI

Application limits Fast filling and discharging rate: FMU90 + FDU9x Level limit detection: FMU90 + FDU9x

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**Characteristic / Application** Compact ultrasonic transmitter

Supply / Communication 2-wire HART

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4...20 mA HART

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### **Application limits**

Take notice of range diagram

More information www.endress.com/FMU44

