# Ultrasonic measurement Time-of-Flight Prosonic FMU42

Cost effective device for sophisticated level measurement in liquids and bulk solids for up to 10m

# 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 +/- 4 mm 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 5 m (16 ft)
- Main wetted parts PVDF

**Field of application:** The Prosonic FMU42 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.uk.endress.com/FMU42 (up to 32 points) for conversion of the measured value into any unit of length, volume or flow rate.

# Features and specifications

Continuous / Solids

Measuring principle

Ultrasonic

**Characteristic / Application** Compact ultrasonic transmitter

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

### Accuracy

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

#### Ambient temperature

-40 °C ... 80 °C (-40 °F ... 176 °F)

#### **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)

### Main wetted parts

**PVDF** 

#### **Process connection**

Flange DN80, ASME 3", JIS 10K 80 DN100,ASME 4", JIS 10K 100 Mounting bracket Continuous / Solids

**Blocking distance** 0.4 m (1.3 ft)

Max. measurement distance 5 m (16 ft)

**Communication** 4 ... 20 mA HART PROFIBUS PA FOUNDATION Fieldbus

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

**Application limits** Take notice of range diagram

Continuous / Liquids

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# Application

Application

# Max. measurement distance

Max. measurement distance

### Communication

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**Application limits** Application limits

More information www.uk.endress.com/FMU42

