Ultrasonic measurement Time-of-Flight Prosonic FMU30

Cost effective all-round instrument for level applications in liquids and bulk solids

from **$753.00**
Price as of 07/05/2022

More information and current pricing:
www.us.endress.com/FMU30

Benefits:

- Quick and simple commissioning via menu-guided onsite operation with four-line plain text display, 7 languages selectable
- Envelope curves 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
- Non-contact measurement method minimizes service requirements
- Installation possible from thread G 1½ or 1½ NPT upwards
- Integrated temperature sensor for automatic correction of the temperature dependent sound velocity

Specs at a glance

- **Accuracy** +/- 3 mm or +/- 0,2 % of set measuring range
- **Process temperature** -20 °C ... 60 °C (- 4°F ... 140 °F)
- **Process pressure absolute / max. overpressure limit** 0.7 bar ... 3 bar abs (10 psi ... 44 psi)
- **Max. measurement distance** Max. measurement distance
- **Main wetted parts** PP/EPDM

Field of application: The range of applications extends from monitoring levels in sewage treatment plants and process water tanks to applications for loading, storage and buffer tanks. FMU30 ultrasonic sensor offers proven software algorithms and all warning and alarm messages are shown on the four-line plain text display and guarantee fast remedy of problems. The envelope curve can also be shown on the display. As the analysis results are displayed directly on-site, this ensures quick and accurate error diagnostics.

Features and specifications

Continuous / Liquids

Measuring principle
Ultrasonic

Characteristic / Application
Compact ultrasonic transmitter

Supply / Communication
2-wire

Accuracy
+/- 3 mm or +/- 0,2 % of set measuring range

Ambient temperature
-20 °C ... 60 °C
(-4 °F ... 140 °F)

Process temperature
-20 °C ... 60 °C
(- 4°F ... 140 °F)

Process pressure absolute / max. overpressure limit
0.7 bar ... 3 bar abs
(10 psi ... 44 psi)

Main wetted parts
PP/EPDM

Process connection
G / NPT 1 1/2"
G / NPT 2"

Blocking distance
1 1/2": 0.25 m (0.8 ft)
2":0.35 m (1.15 ft)

Continuous / Liquids

Application
Application

Max. measurement distance
Max. measurement distance

Communication
4...20 mA

Certificates / Approvals
ATEX, CSA C/US, IEC Ex, NEPSI

Options
Accessory Enclosed:
UNI flange 2" ... 4"

Application limits
Application limits

Point Level / Solids

Measuring principle
Ultrasonic Limit

Characteristic / Application
Compact ultrasonic transmitter

Supply / Communication
2-wire

Ambient temperature
-20 °C...+60 °C,
(-4 °F...+140 °F)

Process temperature
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Point Level / Solids

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0.7 bar...3 bar abs,
(10 psi ...44 psi)

Main wetted parts
PP/ EPDM

Process connection
G / NPT 1 1/2",
G / NPT 2"

Blocking distance
Sensor 1 1/2": 0.25 m,
Sensor 2": 0.35 m

Communication
4...20 mA

Certificates / Approvals
ATEX, CSA C/US, IEC Ex, NEPSI

Options
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UNI flange 2"...4"

Application limits
Take notice of range diagramm

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Main wetted parts
PP/EPDM

Process connection
G / NPT 1 1/2"
G / NPT 2"

Blocking distance
Sensor 1 1/2": 0.25 m
Sensor 2": 0.35 m

Max. measurement distance
Sensor 1-1/2": 2 m (6.6 ft)
Sensor 2": 3.5 m (11 ft)

Communication
4...20 mA

Certificates / Approvals
ATEX, CSA C/US, IEC Ex, NEPSI

Continuous / Solids

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