

Ultrasonic measurement Time-of-Flight Prosonic FMU30

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



from **€445.00**

Price as of 27.01.2022

More information and current pricing:

www.pt.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 distanceMax. measurement distance

Communication4...20 mA

Certificates / ApprovalsATEX, CSA C/US, IEC Ex, NEPSI

Options

Accessory Enclosed:

UNI flange 2" ... 4"

Application limitsApplication limits

Point Level / Solids**Measuring principle**Ultrasonic Limit

Characteristic / ApplicationCompact ultrasonic transmitter

Supply / Communication2-wire

Ambient temperature

-20 °C...+60 °C,

(-4 °F...+140 °F)

Process temperature

-20 °C...+60 °C,

(-4 °F...+140 °F)

Point Level / Solids**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

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

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

Application limits

Take notice of range diagramm

Continuous / Solids**Measuring principle**

Ultrasonic

Characteristic / Application

Compact ultrasonic transmitter

Supply / Communication

2-wire

Continuous / Solids**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

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**Options**

Accessory Enclosed:

UNI flange 2" ... 4"

Application limitsTake notice of range diagram

Point Level / Liquids**Measuring principle**Ultrasonic Limit

Characteristic / ApplicationCompact ultrasonic transmitter

Supply / Communication2-wire

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 partsPP/EPDM

Process connection

G / NPT 1 1/2"

G / NPT 2"

Point Level / Liquids

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

Accessory Enclosed:

UNI flange 2"... 4"

Application limits

Take notice of range diagram

More information www.pt.endress.com/FMU30