

# CLAMP-ON ULTRASONIC FLOW METER

PCE-UFM 80CU



- » **measurement range 0.03 ... 5 m/s**
- » **display of flow velocity, volume flow**
- » **pipe size: DN80 (72 ... 80 mm)**
- » **pipe material: copper**
- » **interface: Ethernet**
- » **incl. reusable coupling pads**

Our clamp-on ultrasonic flow meter enables the measurement of flow velocity from 0.03 to 5 m/s. It can be used for measurements on copper pipes with a diameter between 72 and 80 mm. The clamp-on ultrasonic flow meter of the PCE-UFM-CU series uses the ultrasonic transit time method to determine velocity and flow volume. The flow meter has a separate external clamping device for easy installation without having to touch the liquid medium or stop the production. Special coupling pads ensure that this ultrasonic clamp-on system can also be used without contact gel.

The clamp-on ultrasonic flow meter is equipped with a 360° rotatable display that can be pointed in four directions (0°, 90°, 180°, 270°). The LCD colour display shows the flow velocity, date, time, signal quality, network connection status, instantaneous velocity and cumulative flow, among other parameters. The flow unit can be selected between m<sup>3</sup>, l and gal.

The clamp-on ultrasonic flow meter uses Power over Ethernet (PoE) for power supply and Ethernet communication to save data to the cloud. This allows users to access, manage and analyse their measurement data at any time and from any location via mobile devices or computers without interrupting production processes. In water and wastewater management, drinking water treatment or in industry, flow meters are used in processes where water is used as a coolant, cleaning agent or component of production processes.

## Specification

### Speed

Measurement range up to 0,03 ... 5 m/s

Resolution 0.01 m/s

Accuracy  $\pm 2\%$  of Rd (0.3 ... 5 m/s)

### Speed

Measurement range up to 0,1 ... 16 ft/s

Resolution 0.1 ft/s

Accuracy  $\pm 2\%$  of Rd (1.0 ... 16 ft/s)

### Volume flow

Measurement range up to 0,55 ... 90 m<sup>3</sup>/h

Resolution 0,01 m<sup>3</sup>/h

Accuracy  $\pm 2\%$  of Rd

### General technical data

Display type LC colour display

Display size 1,44 Inch

Display resolution 128 x 128

Interface Ethernet

Materials Copper

Measured medium Water

Repeatability 0,2 %

Communication HTTP, MQTT

Menu language English, Chinese, English (GB)

Protection class (device) IP54

Power supply PoE

Connector type RJ45

Weight 1364 g

Operating conditions -10 ... 50 °C , 0 ... 99 % RH

Storage conditions -10 ... 50 °C , 0 ... 99 % RH

Dimensions ( L x W x D ) 65 x 111 x 43 mm