CLAMP-ON ULTRASONIC FLOW METER

PCE-UFM 32CU



- **Measurement range 0.03 ... 5 m/s**
- **Display of flow velocity, volume flow**
- **Pipe size: DN32 (28 ... 36 mm)**
- **Pipe material: copper**
- **Interface: Ethernet**
- **Incl. reusable coupling pads**

Our Heat Pump Test Equipment 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 28 and 36 mm. The Heat Pump Test Equipment 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 Heat Pump Test Equipment 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^3, l and gal.

The Heat Pump Test Equipment 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. They help to optimise water consumption and control the process flow.

Specification

Speed	
Measuring range	0,03 ... 5 m/s
Resolution	0.01 m/s
Accuracy	±2% of the measured value (of m.v.) (0.3 ... 5 m/s)
Speed	
Measuring range	0,1 ... 16 ft/s
Resolution	0.1 ft/s
Accuracy	±2% of the measured value (of m.v.) (1.0 ... 16 ft/s)
Volume flow	
Measuring range	0,09 ... 15 m^3/h
Resolution	0,01 m^3/h
Accuracy	±2% of the measured value (of m.v.)

General technical data	
Display Typ	LCD-Color Display
Display size	1,44 Inch
Display resolution	128 x 128
Interface	Ethernet, PoE
Materials	Copper
Measuring medium	Water
Repeatability	0,2 %
Communication	HTTP, MQTT
Menu language	English (US), Chinese, English (GB)
Protection class (device)	IP54
Power supply	PoE
Connector type	RJ45
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
Weight	859 g