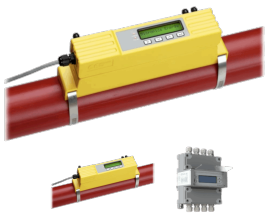
kerberos

IP54 RS485 ModBUS



KET-KCO-310.000

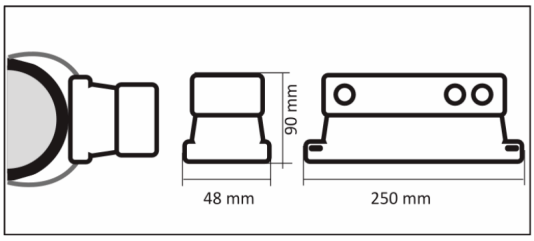
Ultrasonic clamp-on thermal energy measurement kit

- **No need to modify the system**
- **Easy and quick mounting**
- **Integrated temperature sensor**
- **Low consumption**

KET-KCO-310 is a kit for measuring thermal energy complete with thermal, thermal/energy to **ultrasonic** meter based on transit time for flow measurement, KET-CCC-100 computer and **PT100 temperature sensors** to measure flow and return temperatures. The KET-KCO-310 displays the energy speed and total energy thanks to the pulse output and through the RS485 interface can communicate with all the devices of the X-Monitor line for energy metering.

Applications

Accounting



CODE	TUBE DIAMETER
KET-KCO-310.115	DN 22 ÷ 115 mm
KET-KCO-310.300	DN 125 ÷ 180 mm

Technical Features

General specifications	**Protection Range**: IP54 **Operative Temperature**: 0 ÷ +50 °C **Storage Temperature**: -10 ÷ +60 °C **Relative Humidity**: MAX 90% not condensing
Case	**Dimensions**: 250 x 48 x 90 mm (W x H x D) **Mounting**: Pipe mounting **Material**: Self-extinguishing: UL 94 V-O
Power supply	**Supply Voltage**: 12 ÷ 24 VAC / VDC **Consumption**: Max 7 VA **Connectors types**: Screw terminal
Rs485 interface	**Supported Protocols**: ModBUS RTU **Communication Rate**: 1.2 ÷ 38.4 Kpbs **Connectors types**: Screw terminal
Digital outputs	**Channels**: Pulses with amplitude range 3 ÷ 99 ms **Voltage Output**: 48 VAC @ 500 mA; isolated 2500 V
Temperature sensor	**Measure Range**: 0 ÷ +85 °C **Precision**: PT100 Classe B **Resolution**: 0.1 °C
Flow meter	**Principle of Operation**: Ultrasonic based on transit time **Speed Range**: 0.1 ÷ 10 m/s bidirectional **Resolution**: ±50 ps **Repeatability**: 0.5% of the measured value **Precision**: 1-3% of flow reading for a flow rate >0.3 m/s **Measuring Frequency**: 200 Hz **Response Time**: 50 ms **Tube Diameter**: DN 22 ÷ 115 mm or 125 ÷ 180 mm
Certifications	**Referends Standard**: 2014/30/EU, 2014/35/EU **Security**: EN61010-1:2010, EN61326-1:2013, EN61326-2-3:2013 **Metrology**: EN1434