



KET-KCO-310.000

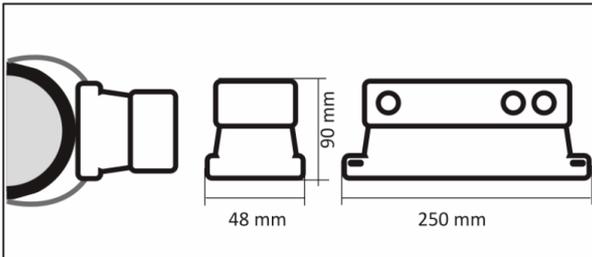
Ultrasonic clamp-on thermal energy measurement kit

- 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



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 Isolation: 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 Repeatability: 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 Approvals: Security: en61010-1:2010, en61326-1:2013, en61326-2-3:2013 Metrology: en1434