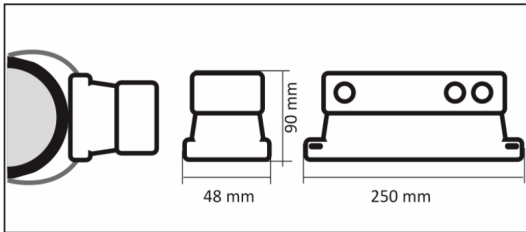


# KET-KCO-310.000

**Applications**  
Accounting



## 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.

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

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