



# 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

