



# KET-CCC-110

- Applications
- Accounting

## ModBUS thermal energy counter in accordance with EN1434

- 4 frequency inputs and 1 analogue input for flow meter
- Couple of PT500 temperature probes
- Large graphic display
- Available in MID version

**KET-CCC-110** is a calculator with ModBUS RTU interface compatible with all types of flow meters: turbine, Woltmann, ultrasonic and electromagnetic.

The meter calculates heating and cooling consumption extremely accurately, also by means of an automatic switch. It is also useful for **cogeneration or trigeneration plants**.

It also acquires signals from cold/hot water sanitary meters or in any case traceable to impulsive and/or analogue inputs.

It has an F-RAM type **data logger** with permanent data storage capacity of up to one year.

Equipped with **PT500 temperature probes** selected in pairs, for the correct and necessary accuracy of the calculation.

The KET-CCC-110 is approved for "financial transactions" according to **EN 1434** as per European Directive 2004/22EG, available in MID version (MI-004).

Technical Features	
General specifications	<b>Protection Range:</b> IP65 <b>Operative Temperature:</b> -5 ÷ +55 °C <b>Storage Temperature:</b> <b>Relative Humidity:</b>
Case	<b>Dimensions:</b> 125 x 179 x 68 mm (W x H x D) <b>Mounting:</b> DIN-rail <b>Required DIN modules:</b> 6 DIN modules <b>Electric Board Type:</b> Industrial <b>Material:</b> PC/ABS, Self extinguishing
Power supply	<b>Supply Voltage:</b> 100 ÷ 240 VAC (44-66 Hz) <b>Consumption:</b> 5 W <b>Connectors types:</b> Screw terminal
Datalogger function	<b>Memory Type:</b> F-RAM: permanent storage of data in case of power failure <b>Data Storage Capacity:</b> 12 months
Rs485 interface	<b>Channels:</b> <b>Supported Protocols:</b> ModBUS RTU <b>Communication Rate:</b> <b>Isolation:</b> <b>Connectors types:</b> Screw terminal
Inputs	<b>Digital Inputs:</b> 1 multifunction (totalizer reset, air conditioning, heating, auxiliary fluid volume) <b>Analogs Inputs:</b> One 4-20 mA input for heat carrier fluid flow measurement <b>Frequency Inputs:</b> 4 inputs (max. frequency 1 kHz, minimum 0.003 Hz): Heat transfer fluid volume, Cold water volume, Hot water volume, Auxiliary fluid volume (or digital input) <b>Temperature Sensors Inputs:</b> 2 (delivery/return)
Digital outputs	<b>Channels:</b> 2 programmable for alarms or pulses for energy/volume <b>Voltage Output:</b> 30 VDC (1250 Hz) @ 100 mA
Temperature sensor	<b>Sensor Type:</b> PT500 <b>Measure Range:</b> -30 ÷ +200 °C <b>Precision:</b> ±0.2% <b>Repeatability:</b> +0.1% <b>Resolution:</b>
Certifications	<b>Referends Standard:</b> EN1434 <b>Approvals:</b> <b>Security:</b> <b>Metrology:</b>