G2 misuratori
water and heat meters

ELECTRONIC COUNTER FOR THERMAL ENERGY

- Model UC:
  - o Remote electronic counter to connect to a mechanic, ultrasonic, electromagnetic meter installed over a return pipe; it is suitable to measure the thermal energy on heating and cooling systems
  - o Digital display with 8 digits plus special characters
  - o Powered by 10 years+1 lithium battery or optionally by 220V external supply or by M-Bus supply
  - o Optical communication with M-Bus protocol
  - o Data retrieve via single key on 3 (main/technical/stastics) levels installation on DIN rail, on plastic housing or wall mounting
  - o 2 additional pulse input to manage 2 reed switch pulsed hot/cold sanitary water meters via internal terminal block with quick connections

- Model UCB:
  - o Same features as model UC fitted with Mbus output with protocol according to standard EN 1434-3 and EN 13757-2
  - o Power suppy via M-Bus system with unlimited number of readings for each device

- Model UC2:
  - o With output for volume and energy
  - o It is not possible to have M-Bus output and pulse inputs

- Model UCBR:
  - o With Wireless M-Bus interface
  - o Communication based on Opening Metering System standard (OMS), open system to ensure a common transmission standard among various meters (water, gas, heat, electricity
  - o It is possible to change the default setting via a specific optical head setting software (as option)

Optional on all models:
- Double recording for cooling/heating consumption

Parameter	Optional settings	Standard settings
Radio transmitting mode	S1/T1: one way S2/T2: two ways	T1: one way
Transmission	00:00 – 24:00	7:00 – 19:00
Interval between transmission	120 seconds – 240 minutes; special monthly setting	120 seconds
Week days	Mon-Sun	Mon-Fri
Calendar week	1 – 4	1 – 4
Months	1 – 12	1 – 12
Switch-on date	01.01 – 31.12	Not set up
AES cryptography	on/off; same key for client or order/random key for meter	On ; random key for meter
Type of telegram	short/long (monthly values)	Long (monthly values)

Technical Data		
Temperature range	°C	1 … 150 (optional 1 …180)
Temperature difference heat	K	3 … 100 (3 … 130 for temperature measurement range 1°C – 180°C)
Temperature difference cooling	K	-3 … -50
Calculation of heat from	K	ΔΘ>0,05
Calculation of cooling from	K	ΔΘ<-0,05
Resolution Temperature	°C	0.01
Measurement cycle		every 30 sec (with external power supply 4 sec)
Power supply	standard	3,6V lithium (6+1 years)
	optional	220V External power supply
		Alimentazione M-Bus
Pulses value	standard	See adhesive label
	TX version	Possible values: 1 / 2,5 / 10 / 25 / 100 / 250 / 1.000
Unit	standard	MWh
	optional	kWh, GJ
		For TX versions depending on set pulse value
Interfaces	standard	infrared / 2 additional pulse
	optional	M-Bus
		2 output for volume and energy
Data Storage		E2PROM / daily
Max. data storage		3 each for flow and power
Billing dates		By choice
Monthly values		24
Protection class		IP65
Electromagnetic class		E1
Mechanical class		M1
Pulse input device		Microcontroller CMOS input class IB according to EN1434-2:2007(D)
Dimensions	mm	lenght x width x height 198 x 123,7 x 45,8
Weight	g	250

Continuous development of our products may necessitate changes in details without prior notice – 05/16

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