

G. GIOANOLA



CC electronic counter for thermal energy: for heating and cooling systems

- MID approved to MI004 Directive 2004/22/CE

- Model CC:
 - 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
 - Digital display with 8 digits plus special characters
 - Optical infrared interface M-Bus
 - Data retrieve by a single key on 3 (main/technical/statics) levels
 - 2 additional pulse input to manage 2 reed switch pulsed hot/cold sanitary water meters via internal terminal block with quick connections
 - Powered by a 6 + 1 year –long lithium battery (replaceable)
 - Preset for external power supply with a 3V DC transformer

- Model CC1 M-Bus:
 - Same as CC model, but with M-Bus output with protocol according to EN 1434-3 and EN 13757-2

- Model CC1 WM-Bus:
 - With Wireless M-Bus interface
 - Communication on standard Opening Metering System (OMS), open system to ensure a common standard of communication among each measurement device (water, gas, heating and electricity)
 - The default configurations can be modified via a specific software and its relevant optical head (optional)



- Model CC2:
 - Equipped with volume or energy pulsed output
 - M-Bus output and pulsed inputs not available

All models are available optionally with:

- Dual data recording for cooling /heating with 2 markings MID and PTB German law

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 setting: monthly	120 seconds
Week days	Monday - Sunday	Monday – Friday
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)	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	$\Delta\theta > 0,05$
Calculation of cooling from	K	$\Delta\theta < -0,05$
Resolution Temperature	°C	0.01
Measurement cycle		every 30 sec (with external power supply 4 sec)
Power supply	standard	3 V lithium (6 + 1 years)
	optional	220V External Power supply / 3V DC
Pulses value	standard	See adhesive label
	TX version	Possible values: 1 / 2,5 / 10 / 25 / 100 / 250 / 1.000 Identif. on display
Unit	standard	MWh
	optional	kWh, GJ for TX versions depending on set pulse value
Interfaces	standard	Optical (infrared) / 2 additional pulse
	optional	M-Bus 2 potential-free contact 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 emitter device		Microcontroller CMOS input class IB according to EN1434-2:2007(D)
Dimensions	mm	length x width x height 198 x 123,7 x 45,8
Weight	g	250

The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice. 02-16



G. GIOANOLA SISMA meters

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