



SISMA

G. GIOANOLA

METERING EFFICIENCY

Electronic calculator for thermal energy meters: compact design for heating and cooling systems

- MID MI004 - EN1434 approval

Model CC S3C:

- Separate electronic calculator that can be connected to a reed switch or open collector pulsed output energy meter
- LCD Display – 8 digits plus special characters
- Optical infrared interface M-Bus protocol for data transfer to an external terminal via optical head and configuration SW
- 6-level key-operated query menu (main/technical/statistics/maximum values/configuration/interfaces, if applicable)
- Preset for future installations of communication interfaces and 3 pulse inputs (i.e. hot and cold sanitary water)
- Battery service life: up to 10 years (replaceable)
- Preset for external power supply with a 230V/3V DC transformer

M-Bus wireless

M-Bus

OMS®



Model CC1 S3C Mbus:

- With M-Bus output and galvanic separation according to norm EN 1434-3 and EN 13757-2

Model CC1 S3C WM-Bus:

- Wireless M-Bus 868Mhz S1/T1/C1 communication interface
- Communication on Opening Metering System (OMS) standard, open system to ensure a common transmission standard among the various meters (water, gas, heat)
- Default configurations can be changed through special configuration software and optical head (optional)

Model CC2 S3C:

With pulse output of energy/volume or energy/energy (calories/frigours)

Not available in combination with wired or wireless M-Bus output

Available options:

- Double register/display heat/refrigeration recording
- Mains power supply 230V/3V DC
- 3 pulse inputs for hot and cold water meters/dual (not available on Mod. CC S3C and CC2 S3C)

Technical Data

Temperature range of medium – heat	°C	0°C...+150°C
Temperature range of medium – cooling	°C	0°C...+50°C
Temperature difference range $\Delta\Theta$ heat	K	3K ...100K
Temperature difference range $\Delta\Theta$ cooling	K	-3K ...-50K
Minimum temperature difference $\Delta\Theta$ heat	K	$\Delta\Theta > 0,05K$
Minimum temperature difference $\Delta\Theta$ cooling	K	$\Delta\Theta < -0,05K$
Temperature resolution	°C	0,01 °C
Operating ambient temperature	°C	+5°C...+55°C
Transport T	°C	-25°C...+70°C (168h max)
Storage temperature	°C	-25°C...+55°C
Energy measuring cycles in standard operation conditions	Sec	60 sec. with a lifetime 10 years 30 sec. with a lifetime 6 years + 1 2 sec. (with power pack)
Power supply	Standard	3 V lithium (10 years replaceable)
	Optional	External input voltage 230 / 24V-3V DC
Pulse values	Standard	K10 o 100 o 1000 (based on the meter input K)
	TX version	K values configurable: 1 / 2,5 / 10 / 25 / 100 / 250 / 1.000 identif. on display
Unit of measurement	Standard	MWh
	Optional	kWh, GJ
The energy unit of measurement can be set until the energy value is ≤ 10 kWh.		
Interfaces	Standard	Optical interface
	Optional	M-Bus / M-Bus+3 pulse inputs
		WM-Bus / WM-Bus+3 pulse inputs
		2 pulse outputs
Data storage		
Storage of maximum values		
Reading dates		
Monthly values	Selectable yearly	
	15 monthly and semi-monthly values via display or wireless M-Bus (compact mode) 24 monthly and semi-monthly values via optical interface or wired MBus	
Protection class	IP54	
Electromagnetic class	E2	
Mechanical class	M2	
Pulse input interface	CMOS microcontroller, class IB, EN 1434-2:2015 (D) compliant	
Pulse inputs sensor volumetric heat output	Reed switch contact (OA) Open Collector (OC) Pulse lenght ≥25ms Pulse pause. ≥50ms Max.input frequency 10 Hz	
Dimensions	mm	H x L x D = 130 x 150 x 35
Weight	g	350g

The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice. Illustrations are not binding. 02-25

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