

Supercal 5I (CAN)

Heat / Cooling

Your benefits

- Optimization of the housing for easier installation
- NFC technology for simplified and user-friendly configuration via Superprog Android
- Large illuminated dot-matrix display (128 × 64) for improved navigation
- 2 LEDs indicate the status of the calculator in real time
- Fully customizable tariff and data logger functions
- Display menu position customizable through Superprog Windows software
- Extended data memory for comprehensive monitoring

Properties

- Calculator for heat/cooling meters or combined heat/cooling meters
- Battery or mains operation for more flexibility
- Replaceable upper part (MET), the wiring remains untouched
- Modules can be retrofitted or replaced at any time without affecting the approval
- Self-detection of optional modules
- Built-in M-Bus interface in accordance with EN 1434-3
- Optical interface in accordance with IEC 62056-21:2002
- 2- or 4-wire temperature sensor without any pre-configuration
- 2 pulse/state inputs and 2 pulse/state open-drain outputs
- User-friendly menu navigation

Applications

- High-end device for building management
- All applications in district heating and cooling or building automation
- Optimally suited for glycol and other mixtures
- As a replacement for mechanical impeller heat meters

Options

- **Optional power supply modules:**
  - Lithium-D battery 3.6 V (12+1years)
  - Mains 24 VDC / 24VAC (from 12 to 42 VDC / 12 to 36 VAC)
  - Mains 230 VAC - 50/60 Hz (from 90 VAC to 240 VAC)
- **Optional module:**
  - 2 analog outputs (0..20 mA, 4..20 mA, 0(2)..10 VDC)
  - 2 digital inputs (status/pulse)
  - 2 digital outputs (status/pulse)
  - M-Bus module
  - BACnet/Modbus module
- **Data logger is fully configurable:**
  - Up to 4 individual historical registers for recording energy, volume, input values
  - Average values
  - Maximum values

GWF AG
Obergrundstrasse 119
6005 Lucerne, Switzerland

T +41 41 319 50 50
info@gwf.ch, www.gwf.ch

Technical support:
T +41 41 319 52 00, support@gwf.ch

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Technical Data

Temperature measurement	
Temperature sensor type	Pt500 according to EN 60751
Cable	2- or 4-wire
Absolute temperature range	–20°C to 200°C
Permissible range	1°C to 200°C
Approval range	3 K to 150 K
Response limit	0.2 K
Temperature resolution t	0.1 K
Temperature resolution Δt	0.01K
Environment class A	E1/M1

Temperature measurement cycle	
Battery operated	10s
Mains operated	3 s

Ambient temperature	
Operation	5°C to 55°C
Storage and transport	–20°C to 70°C (dry storage)

Display	
Display indication	Illuminated dot matrix 128×64 pixels
	Display unit:
- Energy	kWh, MWh, MJ, GJ, kBtu, MBtu, Mcal, Gcal
- Volume	L, m^3, gal (US), kgal (US), ft^3
- Additional pulse inputs	Energy or volume
- Temperature	°C, °F

Protection class	
IP Code	IP 65 according to IEC 60529

Pulse inputs and outputs	
Frequencie	maximum 200 Hz
Input voltage	0 V to 30 V
Output voltage	0 V to 60 V

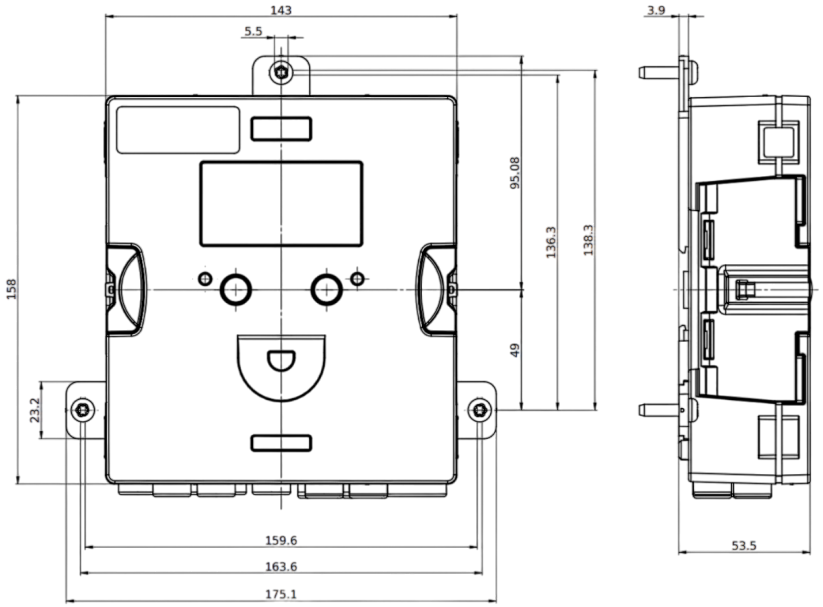
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Interface	
Optical interface	according to IEC 62056-21:2002
NFC interface	according to ISO/IEC 14443 Type A
M-Bus interface	according to EN 13757-2/3 300 to 9600 baud Galvanic insulation 3.75 kV

Compatibility matrix		
Function	**D Battery**	**Network Supply**
LCD display	X	X
Backlight LCD display		X
NFC interface	X	X
Optical interface	X	X
M-Bus interface	X	X
Measurement cycle [1]	fast	fast
Energy measurement (temperature and volume)	X	X
Flow sensor supply	X	X
Radio	X	X
Communication modules [2]	X	X
Service life (years)	12+1	[3]

1] If the SC5 is connected to a Superstatic 440: Slow is between 10 and 30 seconds. Fast is between 3 and 30 seconds.
If the SC5 is connected to another flow sensor: Slow is between 10 and 120 seconds. Fast is between 3 and 120 seconds.
2] M-Bus modules always work. All other communication modules require an external main power supply.
3] In the event that a Supercal 5 with an external mains power supply connected to a Superstatic 440 experiences a power failure. The backup battery can only keep the unit running for up to 3 months.

Dimensions



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