

Radio Module for Wehrle Modularis water meter



Application

The retrofittable radio module **Supercom 581** is suitable for the large range of water meters of E. Wehrle GmbH:

- Modularis single-jet and multi-jet dry-rotor meters
- Modularis cylindrical piston meters
- and various versions of EAS-Modular measuring capsules

It can be retrofitted at any time without impairing the calibration. The bidirectional SONTEx radio system allows the readout of the consumption data via a mobile radio modem Supercom 636 or over the radio central Supercom 646.

For the Wehrle capsule water counters MTK and MTW, various housings for all types of pipe connections for flush or surface mounting and for valve connection are available. The compatible connection threads for third-party products allow a cost-effective change-over to the retrofittable Modular-EAS-technology at all metering points.

Function

The battery-operated radio module **Supercom 581** scans the volume pulses of the water meter, accumulates them and stores the consumption data in this internal memory.

The scan guarantees a precise and correct detection of the backward and forward modulation indicator motion.

The radio module is equipped with an optical manipulation protection. If the housing of the radio module is removed and/or opened, the electronic manipulation protection triggers an error message.

Stored Data

- Identification number (serial number water meter)
- Medium: cold or warm water
- Serial number (radio module address)
- Current time and date
- Accumulated volume
- 15 monthly values
- Operating hours of battery
- Manipulation protection: date of the last manipulation and the accumulated duration of all manipulations in minutes
- Magnetic contact detection: with date of the last magnetic contact detection and the accumulated duration of all manipulations
- Pulse value
- Number of counter resets

Technical Data

General

Versions

MID : Q3 2.5 - 6.3 m³/h
 Q3 10 - 25 m³/h
 EWG : Qn 1.5 - 3.5 m³/h
 Qn 6 - 15 m³/h

Pulse value
 Operating temperature
 Storage temperature

1 l/Imp
 5° to 55°C
 -20 to 70°C

Housing

Protection class

IP68
 Maximum 7 days permanent
 Maximum 1 m of water depth static
 Temperature range 7°C – 35°C
 IP67 outside of the above mentioned conditions

Radio

Method
 Frequency
 Protocol
 Baud rate
 Range

CE **Conformity acc. to R&TTE 1999/5/CE**
 FSK, bidirectional
 433.82 MHz
 Radian, EN60870-5 (M-Bus)
 2'400 Baud
 approx. 30 m, depending on building structure

Data Memory

EEPROM

daily storing

Electronic Data

Main supply
 Service life

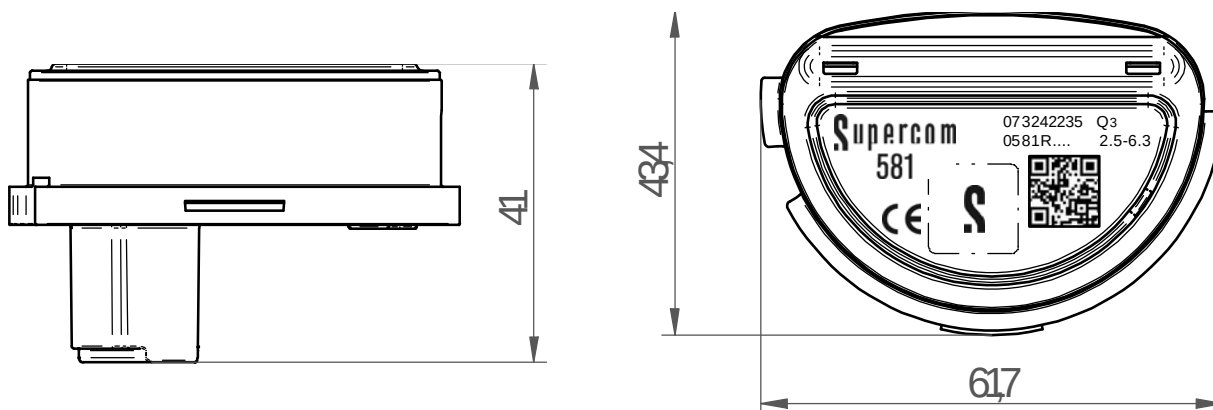
Lithium Metal Battery (≤ 1g) 3VDC
 Maximum 11 years

Optical Interface

Protocol
 Baud rate

EN60870-5 (M-Bus)
 2'400 Baud

Dimensional Drawing



Technical Support

For technical support, please contact your local Sontex agent or Sontex SA directly.

Hotline Sontex: sontex@sontex.ch, +41 32 488 30 04

The detailed declaration of conformity can be found on our homepage: www.sontex.ch

Technical modifications subject to change without notice

Data Sheet Supercom 581 EN 12-04-2017

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