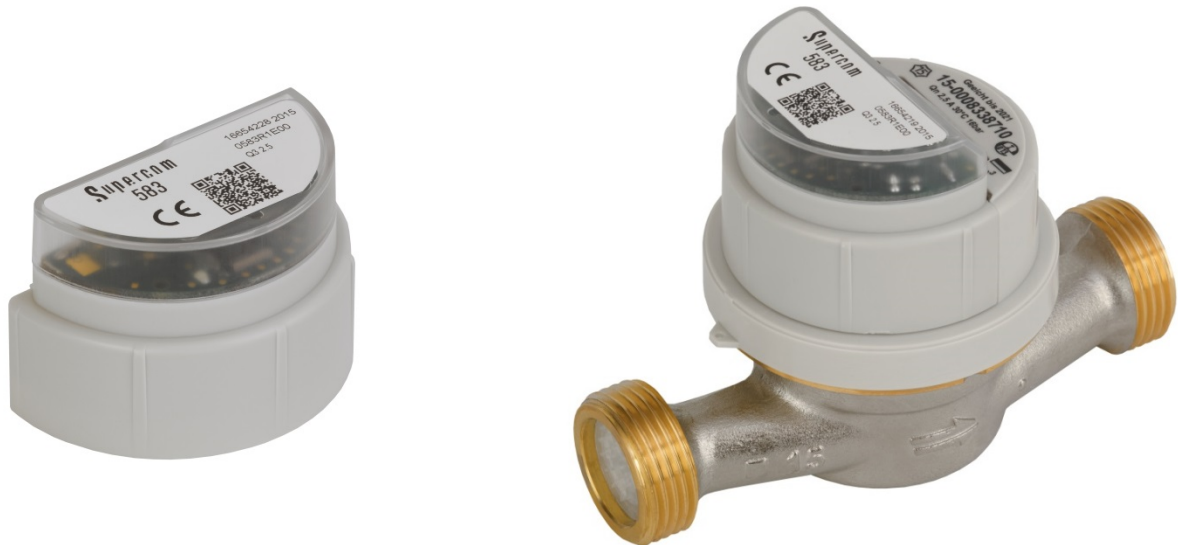# Radio Module for Allmess water meter

Application

The retrofittable radio module **Supercom 583** is suitable for Allmess GmbH water meters:

- System-V +m water meters.
- System-MK +m exchange single jet capsule.

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 via the radio concentrator Supercom 646.

Function

The battery-operated radio module **Supercom 583** scans the rotation of the modulator disc of the water meter, accumulates the rotation pulses and stores the consumption data in his 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 radio module is removed and/or opened, the electronic manipulation protection triggers an error message.

Stored Data

- Identification number (serial number of water meter).
- Medium: cold or warm water.
- Serial number (radio module address).
- Current time and date.
- Accumulated volume.
- Set day.
- Volume at set day.
- 15 monthly values.
- Operating hours of battery.
- Manipulation protection: date of the last manipulation and the accumulated duration of all manipulations in minutes.
- Pulse value.
- Number of counter resets.
- Error code.
- Firmware version.
- Commissioning date.
- Accumulated volume and date at the last programming of volume.
- Accumulated volume before the last programming of volume.

Programming data

With the software Tools Supercom following parameters can be programmed:
- Water meter ID.
- Medium: cold or warm water.
- Current date and time and set day.
- Initialisation of the totalizer, the set day value and of the 15 monthly values.
- Reset to delivery (sleeping) mode or set to operating mode.
- Password for the secured access to the programming.

Technical Data

General

Permanent flow	MID:	Q_3 2.5 m³/h - 4 m³/h
Nominal flow	EWG:	Qn 1.5m³/h - 2.5m³/h
Pulse value	1 l/Imp	
Operating temperature	5 to 55°C	
Storage temperature	-20 to 70°C	

Housing

Protection class	IP65

Conformity

$C\mathcal{E}$ acc. to RED 2014/53/EU

Radio

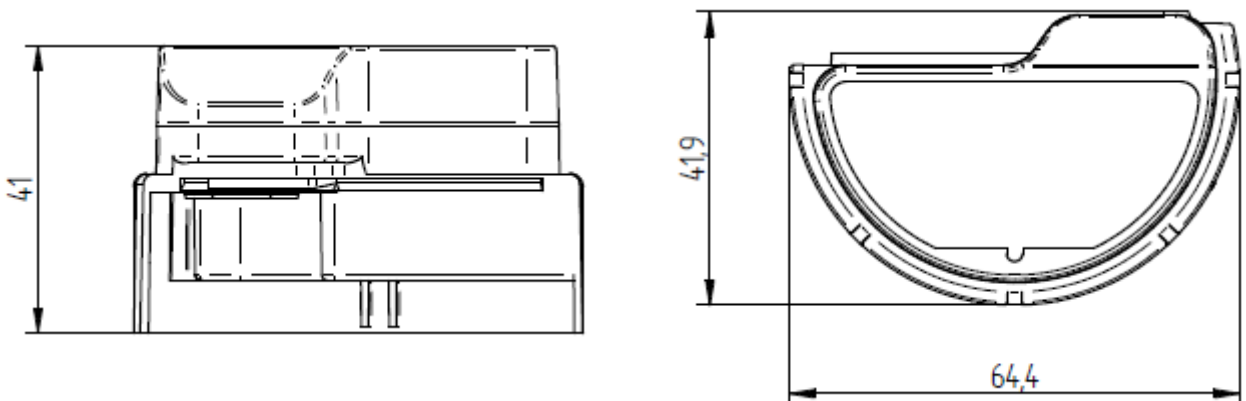|	
Method	FSK, bidirectional
Frequency	433.82 MHz
Protocol	Radian, EN60870-5 (M-Bus)
Baud rate	2'400 Baud
Range	approx. 30 m, depending on building structure

Data Memory

FRAM	Real time storage

Electronic Data

Main supply	Lithium Metal Battery (≤ 1g) 3VDC
Service life	Maximum 10 + 1 years

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
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