

## Wireless M-Bus Radio Module for Wehrle Modularis water meter

Supercom Ce	
Application	<ul> <li>The retrofittable wireless M-Bus radio module Supercom 587 is suitable for E. Wehrle GmbH water meters:</li> <li>Modularis single-jet and multi-jet dry meters.</li> <li>Modularis cylindrical piston meters.</li> <li>Various versions of EAS-Modularis measuring capsules.</li> </ul>
Function	It can be retrofitted at any time without impairing the calibration.
Tunction	The battery-operated radio module <b>Supercom 587</b> scans the rotation of the modulator disc of the water meter, accumulates the rotation pulses and stores the consumption data in its internal memory. The scan guarantees a precise and correct detection of the backward and forward modulation indicator motion. The radio module can be parameterized via the optical head and later read out by wireless M-Bus.
Stored Data	<ul> <li>Current accumulated volume and 15 monthly values.</li> <li>Set day and accumulated volume at set day.</li> <li>Water meter ID and radio module serial number.</li> <li>Medium: cold or warm water.</li> <li>Current time and date.</li> <li>Data transmission periods and transmission interval.</li> <li>One telegram: either the short (OMS) or the long telegram (Walk-by).</li> <li>AES-128 encryption for secure data transmission.</li> <li>Programmed accumulated volume, date of and total volume before last programming of accumulated volume for changes of the water meter.</li> <li>Manipulation protection: date of the last manipulation, accumulated duration of all manipulations in minutes and total number of manipulations.</li> <li>Number of counter resets.</li> <li>Operating hours of battery and commissioning date.</li> <li>Error code, firmware version.</li> </ul>
Programming data	<ul> <li>With the software Prog587 following parameters can be programmed:</li> <li>Water meter ID and medium: cold or warm water.</li> <li>Current date and time and set day.</li> <li>Initialisation of the totalizer, the set day value and of the 15 monthly values.</li> <li>Reset to delivery (sleeping) mode or set to operating mode.</li> <li>Data transmission periods and transmission interval and AES-128 encryption key.</li> <li>Choice of telegram: either short (OMS) or long telegram (Walk-by).</li> <li>Password for the secured access to the programming.</li> </ul>

Password for the secured access to the programming.





Technical Data			
General	Permanent flow	MID: Q3 2.5 m <sup>3</sup> /h – 6.3 m <sup>3</sup> /h	
	Nominal flow	EWG: Qn $1.5m^3/h - 3.5m^3/h$	
	Pulse value	1 l/Imp	
	Operating temperature	5 to 55°C	
	Storage temperature	-20 to 70°C	
Housing			
	Protection class	IP65	
Wireless M-Bus radio communication Radio			
	Frequency	868.95 MHz	
	Communication	Unidirectional	
	Protocol	Wireless M-Bus	
	Encryption Transmission standard	AES-128 EN 13757-4, mode T1	
	Broadcasting interval	Short telegram (OMS): > 120 s	
	Droddodding interval	Long telegram (walk-by): > 120 s	
	Data transmission periods:	Short telegram (OMS): 24 hours a day,	
		7 days a week	
		Long telegram (walk-by): < 12 hours a day, 7 days a week	
Conformity	~ ~		
	CE	acc. to RED 2014/53/EU	
Data Memory			
2	FRAM	Real time storage	
		, C	
Electronic Data			
	Main supply Service life	Lithium Metal Battery (≤ 1g) 3VDC Maximum 12 + 1 years	
	Service life	Maximum 12 + 1 years	
<b>Optical Interface</b>			
	Drotocol		
	Protocol Baud rate	EN 60870-5 (M-Bus) 2'400 or 4'800 Baud	
		2 100 01 1 000 2444	
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 © Sontex SA 2016 Data Sheet Supercom 587 EN 08-06-2017

2