

Supercom

Supercom 541

Radio Pulse Adapter



Application	The radio pulse adapter Supercom 541 is suitable for the use with all kinds of supply types of measuring instruments and can, due to the integrated bidirectional radio communication module, be read by means of mobile (Radio modem Supercom 636) or fix data acquisition (Radio central Supercom 646/ Repeater 656). The battery operated radio pulse adapter Supercom 541 is available with two pulse inputs.
Function	
	The battery-operated radio pulse adapter Supercom 541 scans the pulses of one or two measuring instruments, accumulates them and stores the consumption data.
	Two types of housing are available: IP54 for the internal use and IP68 for the external use. The radio pulse adapter is freely programmable or is programmed with the detection of the reverse flow or/and the manipulation detection.
Stored Data	
	 The consumption data can be read out with a mobile radio modem or with a permanently installed radio central. The following data are stored: Serial number (radio module) Identification number (serial number of the instrument) Medium: cold or warm water, gas, electricity, etc. Current time and date, Operating hours of battery Accumulated volume, actual value and 15 monthly values Fraud detection counter or cable Reverse flow detection





Versions

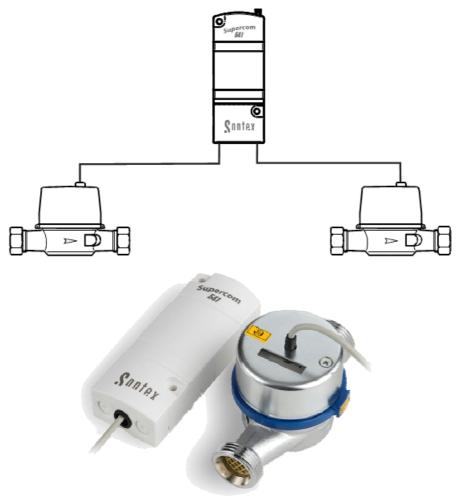
	Battery			
Type of radio pulse adapter Supercom 541	IP54	IP68		
Type of Tadio pulse adapter Supercom 541	1 or 2	1 counter	2 counters	2 counters
	counter			
Part No: 0541R	x000	x101	x202	x303
counter 1 (c1)	*	•	•	•
counter 2 (c2)	*		•	•
fraud detection	*	•	c1	c1 und c2
reverse flow detection	*	•	c1	

* = freely programmable with the software Sontex916 / Tools916.

The IP68 versions of the radio pulse adapter Supercom 541 are hard-wired ex factory. Pay attention that during the final configuration with the PDA Software Sontex916 the preconfigured functions are not modified.

Example of use

Sontex radio pulse adapter Supercom 541 with two pulse inputs connected to two water meter. The read out will be done due to the bidirectional internal radio module.





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Technical Data

General Operating temperature Storage temperature Length of the cable - IP54 (Version without cable) - IP68 (Version hard-wired) EMC-Approval

Housing dimensions

Protection class

Radio communication

Method Frequency Protocol Baud rate Transmitting power Range 5° to 55°C -20 to 70°C

max. 3.00 m acc. to the homologation max. 1.50 m according to IEC / EN 61000

50x128x34 mm IP54 or IP68

FSK, bidirectional 433.82 MHz Radian, EN60870 (M-Bus) 2'400 Baud < 10 mW approx. 30 m*

* This value depends on the structure of the building.

Due to the physical conditions, the sending and receipt ranges can vary in buildings or be completely impossible.

Data Memory EEPROM

Electrical data Power supply

Life time

24 hours storing

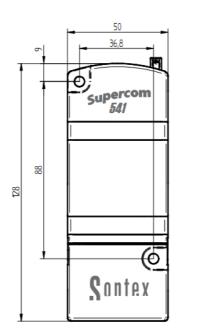
3V Lithium-long life battery 12 + 1 years, based on 52 read outs / year

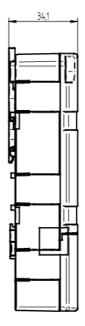
Specification of the pulse inputs

Maximum frequency	
- Channel 1	
- Channel 2	
Minimum pulse length	

20 Hz 20 Hz 2ms (galvanically not separated)

Dimension









Installation

Please note:

After installation, the radio module has to be protected with user seals to avoid unauthorized access.

Sontex expressly points out that the data transmission via mobile radio depends on the radio-technical propagation conditions at the place of installation and that under certain atmospheric or geographic conditions (especially within closed locations or in so-called radio shadows), radio communication cannot be established at any time and at any place. It is exclusively up to the user to check the radio-technical propagation conditions at the intended place of installation.

Use and maintenance

Attention

The lithium battery is not rechargeable. The battery must be disposed environmentally correct or returned to the manufacturer for disposal. User seals may only be removed by authorized persons for service purposes and be renewed afterwards. Otherwise the warranty of the equipment is void.

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

CE Declaration of conformity according to R&TTE 1999/5/CE

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

Technical modifications subject to change without notice Data Sheet Supercom 541 EN 24-03-2011

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