

SR-MI-HS 902 MHz

Wireless metering interface

thermokon[®]
HOME OF SENSOR TECHNOLOGY

Datasheet

Subject to technical alteration
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» APPLICATION

Wireless module for evaluation of pulse signals for gas, water, electric and BTU meters with S0 interfaces.

» SECURITY ADVICE – CAUTION



The installation and assembly of electrical equipment should only be performed by authorized personnel.

The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

» NOTES ON DISPOSAL



As a component of a large-scale fixed installation, Thermokon products are intended to be used permanently as part of a building or a structure at a pre-defined and dedicated location, hence the Waste Electrical and Electronic Act (WEEE) is not applicable. However, most of the products may contain valuable materials that should be recycled and not disposed of as domestic waste. Please note the relevant regulations for local disposal.

» PRODUCT TESTING AND CERTIFICATION



Declaration of conformity

The declaration of conformity of the products are available on our website <https://www.thermokon.de/>.

» TECHNICAL DATA

Radio technology	EnOcean (IEC 14543-3-10), transmission power <10 mW EEP A5-12-00 (only cumulative value)
Frequency	902 MHz, optional 315 MHz
Power supply	15..24 V = ($\pm 10\%$) or 24 V ~ ($\pm 10\%$) SELV
Power consumption	typ. 0,2 W (24 V =) 0,4 VA (24 V ~)
Inputs	3x S0-interface
Enclosure	ABS, light grey
Protection	IP20 according to EN 60529
Connection electrical	terminal block, max. 16AWG
Ambient condition	-4..+122 °C, max. 85% rH short term condensation
Weight	3.17oz.
Mounting	prepared for mounting on DIN rail TS35 (35x7,5 mm) according to EN 60715
Delivery contents	incl. external transmitting antenna 2,5 m with magnetic holding

» INFORMATION ABOUT EASYSENS® (RADIO) / AIRCONFIG GENERAL USAGE



EasySens® - airConfig

Basic information about EasySens® radio and about general usage of our airConfig software, please download from our website.

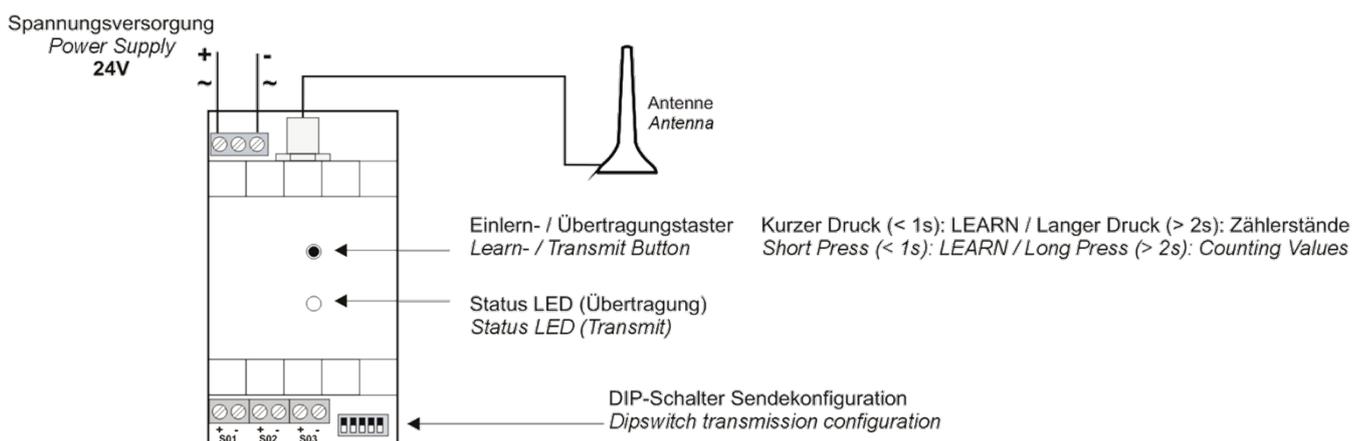
» OVERVIEW OF THE RADIO TELEGRAMS



EEP

The structure of the data contained in the telegram can be found in the EEP (EnOcean equipment profile) list provided by the EnOcean Alliance. <http://www.enocean-alliance.org/eep/>

» CONNECTION PLAN



» LEARN-IN PROCEDURE

Push the learn-in button for a minimum time of 1 seconds to transmit the teach in telegram. The SR-MI-HS now transmits the teach in telegram, this is visualized by a slow LED flash. After this, the button is disabled for about 2s.

Once the teach-in procedure has been performed successfully the totals of all active counters will be transmitted every time the learn button is pressed (>2s). Please keep in mind that S0 inputs with the counter value „0“ won't be transmitted.

» MOUNTING ADVICES

The housing of the module is designed for installation on standard DIN rails according to DIN EN 50022. The antenna has a magnetic flux and must be mounted in the middle of a metal plate with the minimum dimensions 180 mm x 180 mm (material: galvanized sheet steel, please see "accessories"). The ideal mounting place in rooms is found approx. 1 m under the ceiling (optimum radio transmission range). The antenna should be adjusted vertically downwards and should have a minimum distance of approx. 90 mm to the wall. The distance to other transmitters (e.g. GSM/DECT/Wireless LAN/ EnOcean) should be 2 m at least. To match the colour of the room, the antenna can be painted, accordingly (do not use any metallic lacquers).

Wiring Notice

Cable laying should be made in an electric conduit.

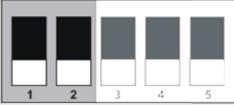
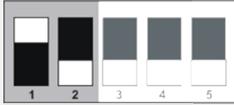
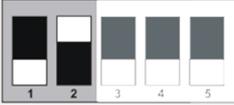
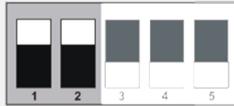
A cable crushing should be avoided.

The minimum bending radius of the extension cable amounts to 50 mm

Do not use a pulling device for the cable laying, in order to avoid any damages of the sheathing respectively of the connectors.

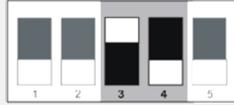
DIP 1 | 2 – Transmission time

The intervals at which the counts of all inputs are transmitted are defined by the transmission time setting.

	1000 Seconds		100 Seconds
	10 Seconds		5 Seconds

DIP 3 | 4 - Heartbeat

Independent of the transmission time setting, the counter reading (cumulative) can also be transmitted with every 10th or 100th pulse counted.

	Not active		Every 10. Impulse
	Every 100. impulse		

DIP 5 - Automatic deactivation of inactive channels

All channels that have not received a pulse over a period of 24 hours are deactivated for transmission. If a new pulse is registered on one of the deactivated channels, it will be reactivated for transmission.

	Deactivate inactive channels (Delay: 24h)
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» DIMENSIONS (MM)

