

SRC-ADO 24V

Wireless Receiver with analog and digital outputs

thermokon[®]
Sensortechnik GmbH

Datasheet

Subject to technical alteration

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Application

Universal receiver with 4 analogue outputs 0..10 V and up to 4 floating relay outputs. For connection of EasySens sensors, switches, window contacts or window handles. The device can be individually configured (according to type) to be used as fancoil controller with changeover function, PI controller for heating/cooling, electrical actuation 1..10 V for dimmer or standardised interface for EnOcean sensors and analogue or digital outputs.

Types Available

SRC-ADO	4AA/2DA type1/type2*	4 analogue outputs 0-10V, 2 relay outputs, floating, max. 230 V, 5 A
SRC-ADO	4AA/4DA type1/type2*	4 analogue outputs 0-10V, 4 relay outputs, floating, max. 230 V, 5 A

*available types: type1: dim/heating/cooling or type2: fancoil, change over

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.



CAUTION! Risk of electric shock due to live components within the enclosure, especially devices with mains voltage supply (usually between 90..265 V).

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.

Information about EasySens® (radio) general

Basic information about EasySens® radio and about general usage of our airConfig software, please download from the following link

http://www.thermokon.de/ftp/info/Information_Radio_airConfig_en.pdf



Technical Data

Output voltage		4x 0..10 V, max. load 10 mA
Output switch contact	2DA	2 changeover contacts, floating, max. load 5 A
	4DA	4 changeover contacts, floating, max. load 5 A
Radio technology		EnOcean (IEC 14543-3-10)
Frequency		868 MHz
Antenna		external transmit- / receive antenna
Data transmission		unidirectional
Power supply		15..24 V = (±10%) or 24 V ~ (±10%)
Power consumption		typ. 3,5 W (24 V =) 6,5 VA (24 V ~)
Display	2DA	4 LED's for indication of the device-status
	4DA	6 LED's for indication of the device status
Functions		Lighting/Blinds/Shutter, heating/cooling (PI), Fan-Coil controller, Heating ON/OFF, Heating with PWM, Heating/cooling with PWM, Hygrostat controller, Fan enabling, Signal contact, Multi actuator, Switch actuator
Switching values		8 A resistive load (24 V =/~ or 230 V ~) 2 A inductive load (230 V ~)
Enclosure		ABS, light grey
Protection		IP20 according to EN 60529
Connection electrical		terminal block, max. 1,5 mm ²
Ambient condition		0..+60 °C max. 85% rH non-condensing
Weight		approx. 350 g (without external antenna)
Mounting		prepared for mounting on DIN rail TS35 (35x7,5 mm) according to EN 60715
Delivery contents		incl. external transmitting/receiving antenna 2,5 m with magnetic holding, equipped with a FME connector
Notes		For inductive and / or capacitive loads, a suitable protection must be provided (varistor, RC element, inrush current limiting element, ...), magnetic antenna plate form L, 180x180 mm, recommended to improve radio coverage

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/>.



Mounting Advices

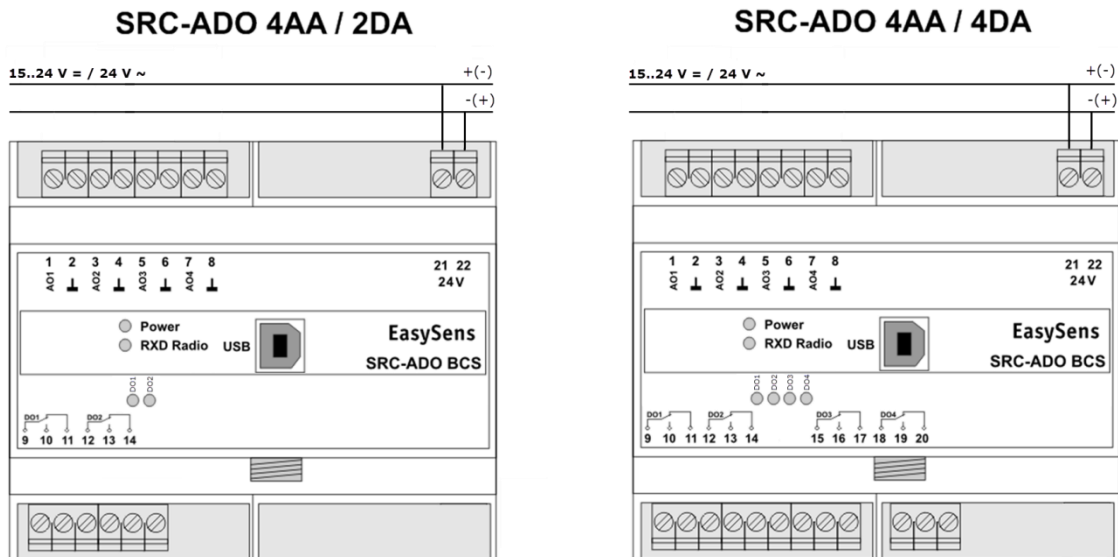
The housing of the module is designed for installation on standard DIN rails according to DIN EN 60715. For operation, a separate external 868 MHz receiving antenna is necessary.

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 senders (e.g. GSM/DECT/Wireless LAN/ EnOcean senders) 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).

Cable Laying 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 an active pull-up device for the cable laying, in order to avoid any damages of the sheathing respectively of the connectors.

Connection Plan



Notice

A combination of low voltage and mains voltage at the individual outputs is not safe. All relay outputs must use a common phase - various phases are prohibited.

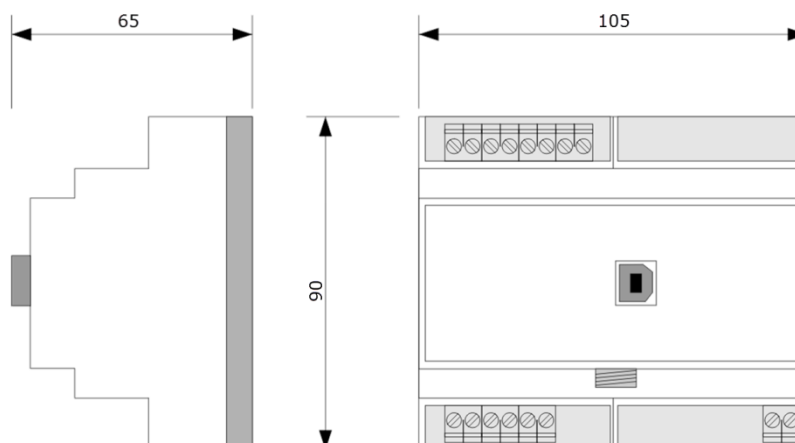
Configuration

The configuration software runs on any common PC having a standard operating system, such as WindowsNT/ 2000/ XP/ Vista/ 7 etc. The connection to the device is easily set-up by a standard USB interface.



The configuration software and more information about the parameter of the SRC-ADO, please download from the following link.

<http://www.thermokon.de/download-archive/EasySens%20-%20Empf%C3%A4nger/Aktoren/SRC-ADO/Software/SRC-ADO.zip>

Dimensions (mm)**Accessories (optional)**

Antenna extension 10 m

Antenna extension 20 m

Antenna holder form L, 180 x 180 mm

Item No. 257206

Item No. 257213

Item No. 255097