SRC-ADO 24V

Wireless Receiver with analog and digital outputs

thermokon®
HOME OF SENSOR TECHNOLOGY

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.

This product is intended for use as part of an automation solution for (functional) buildings. It transmits sensor data within a building over short distances unencrypted by radio to suitable receivers. No personal data or location data is transmitted.

The product cannot communicate directly with the Internet and is not intended for applications that use the Internet to forward unprocessed sensor data. Automation stations that forward data via the Internet, e.g. to visualise the building status, must ensure that the data to be forwarded is encrypted as required by law.

» 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

»PRODUCT TESTING AND CERTIFICATION

Declaration of conformity
The declaration of conformity of the products are available on our website
https://www.thermokon.de/direct/en-gb/categories/src-ado

»TECHNICAL DATA

Output voltage	4x 0..10 V, max. load 10mA
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), transmission power <10 mW
Frequency	868 MHz
Antenna	external transmit- / receive antenna
Data transmission	unidirectional
Power supply	15..24 V = (±10%) oder 24 V ~ (±10%) SELV
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 mm²
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

»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.

»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.

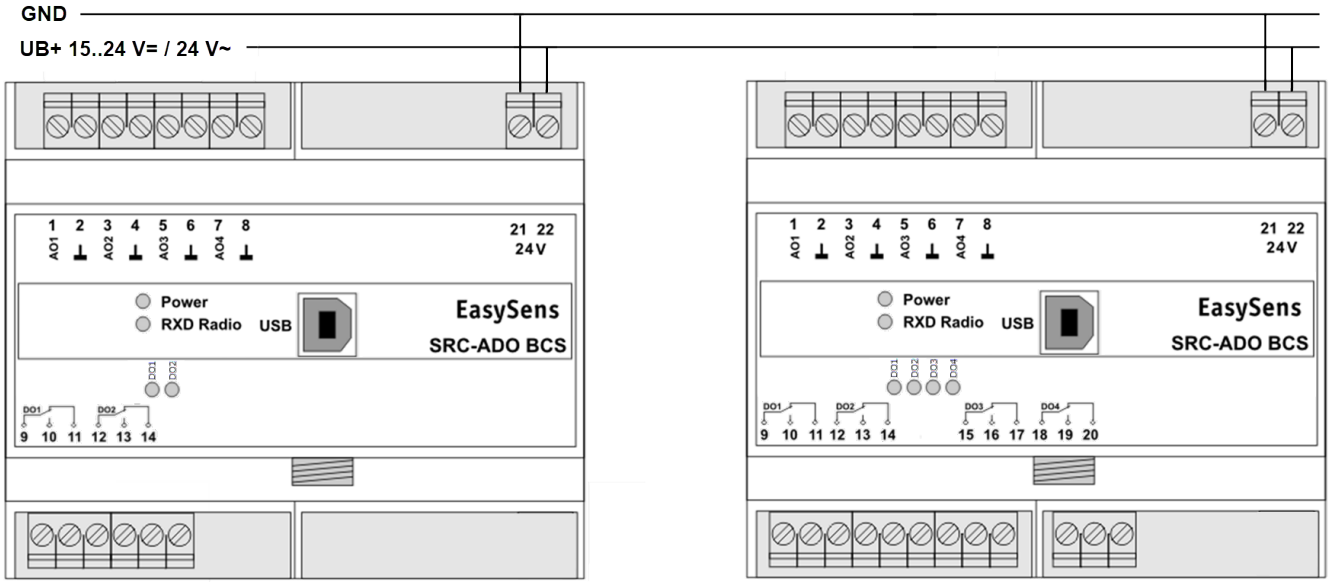
The antenna has a magnetic flux and must be mounted in the middle of a metal plate with the minimum dimensions 180 mm x 180 mm (material: galvanized sheet steel, please see “accessories”). The ideal mounting place in rooms is found approx. 1 m under the ceiling (optimum radio transmission range). The 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

SRC-ADO 4AA / 2DA **SRC-ADO 4AA /4DA**



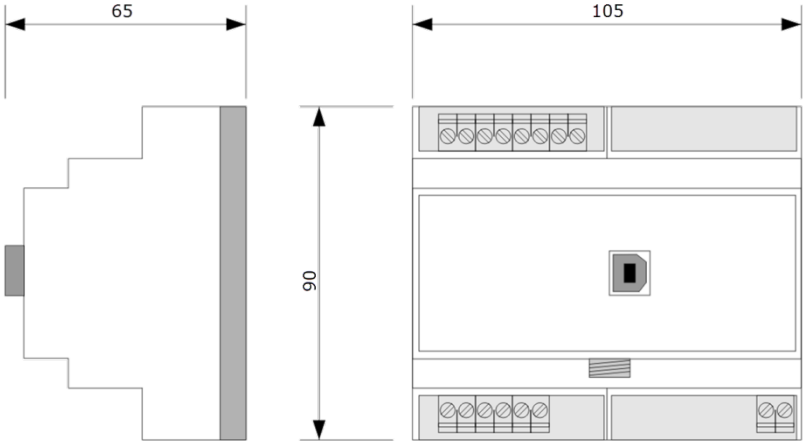
Notice
A combination of low voltage and mains voltage at the individual outputs is not safe. All relay outputs must use a common phase - various phases are prohibited.

»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: https://www.thermokon.de/direct/files/src-ado-configsoftware.zip

»DIMENSIONS (MM)



»ACCESSORIES (OPTIONAL)

Antenna extension 10 m	Item No. 257206
Antenna extension 20 m	Item No. 257213
Antenna holder form L, 180 x 180 mm	Item No. 255097

»NOTES ON DISPOSAL



The crossed-out wheelie bin symbol indicates that the product or removable batteries must not be disposed of with household or commercial waste. Within the EU, you are legally obliged to dispose of the product separately and appropriately in accordance with the national laws of your country. Alternatively, please contact your supplier or Thermokon Sensortechnik GmbH. Further information can be found at: www.thermokon.de