



S+S REGELTECHNIK

MODKON® KA2 - Modbus

Ⓓ Bedienungs- und Montageanleitung

Kommunikationsadapter mit USB- und RS485-Schnittstelle,
zur Systemanbindung von S+S Modbus-Fühlern

ⒼⒷ Operating Instructions, Mounting & Installation

Communication adapter with USB and RS485 interface,
for system connection of S+S Modbus sensors

Ⓕ Notice d'instruction

Adaptateur de communication avec interface USB et RS485,
pour la connexion au système des sondes Modbus S+S

ⒹⓇ Руководство по монтажу и обслуживанию

Коммуникационный адаптер с интерфейсом USB и RS485,
для подключения датчиков S+S Modbus к системе



S+S REGELTECHNIK

S+S REGELTECHNIK GMBH
PIRNAER STRASSE 20
90411 NÜRNBERG / GERMANY

FON +49 (0) 911 / 5 19 47-0
FAX +49 (0) 911 / 5 19 47-70

mail@SplusS.de
www.SplusS.de



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You have bought a German quality product.

Félicitations!

Vous avez fait l'acquisition d'un produit allemand de qualité.

Примите наши поздравления!

Вы приобрели качественный продукт, изготовленный в Германии.

The **KA2 Modbus** communication adapter connects an S+S Modbus sensor plugged in to your PC via the RS485 interface. The system is connected via standard USB port. There is no need for an additional power supply.

When used in combination with the S+S software **MODKON RTU** (included in delivery), it is easy to test the response behaviour of the sensor. The ideal first step to gain experience with Modbus technology and the connected S+S Modbus sensor.

TECHNICAL DATA	
Power supply:	Takes place via USB connection
Output:	Voltage: 15 V Current: 100 mA
Interfaces:	Standard USB port for system connection and power supply RS485 interface for connection of an S+S Modbus sensor
Compatibility:	S+S Modbus sensors for the device classes THERMASGARD® , HYGRASGARD® , PREMASGARD® , AERASGARD®
Housing:	plastic, UV-stabilised, material polyamide, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), Housing cover is transparent!
Housing dimensions:	108 x 78.5 x 45.8 mm (Tyr 3)
Cable gland:	M20 x 1.5; with strain relief, exchangeable, inner diameter 8 - 13 mm
Electrical connection:	0.2 - 1.5 mm², using push-in terminals
Ambient temperature:	-30...+70 °C
Permitted humidity:	< 95 % r. H., non-precipitating air
Protection class:	III (according to EN 60 730)
Protection type:	IP 54 (according to EN 60 529) Housing only!

GB Important notes

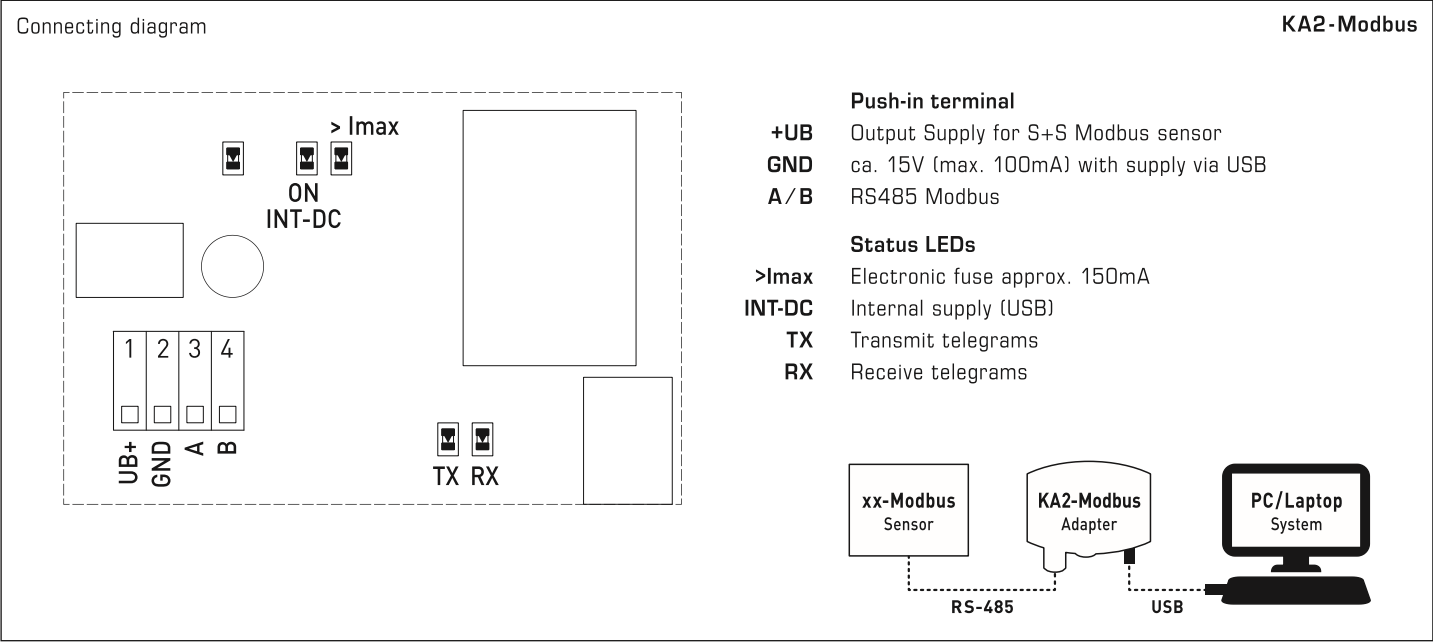
Our “General Terms and Conditions for Business” together with the “General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry” (ZVEI conditions) including supplementary clause “Extended Retention of Title” apply as the exclusive terms and conditions.

In addition, the following points are to be observed:

- These instructions must be read before installation and putting in operation and all notes provided therein are to be regarded!
- Devices must only be connected to safety extra-low voltage and under dead-voltage condition. To avoid damages and errors the device (e.g. by voltage induction) shielded cables are to be used, laying parallel with current-carrying lines is to be avoided, and EMC directives are to be observed.
- This device shall only be used for its intended purpose. Respective safety regulations issued by the VDE, the states, their control authorities, the TÜV and the local energy supply company must be observed. The purchaser has to adhere to the building and safety regulations and has to prevent perils of any kind.
- No warranties or liabilities will be assumed for defects and damages arising from improper use of this device.
- Consequential damages caused by a fault in this device are excluded from warranty or liability.
- These devices must be installed and commissioned by authorised specialists.
- The technical data and connecting conditions of the mounting and operating instructions delivered together with the device are exclusively valid. Deviations from the catalogue representation are not explicitly mentioned and are possible in terms of technical progress and continuous improvement of our products.
- In case of any modifications made by the user, all warranty claims are forfeited.
- This device must not be installed close to heat sources (e.g. radiators) or be exposed to their heat flow. Direct sun irradiation or heat irradiation by similar sources (powerful lamps, halogen spotlights) must absolutely be avoided.
- Operating this device close to other devices that do not comply with EMC directives may influence functionality.
- This device must not be used for monitoring applications, which serve the purpose of protecting persons against hazards or injury, or as an EMERGENCY STOP switch for systems or machinery, or for any other similar safety-relevant purposes.
- Dimensions of housing or housing accessories may show slight tolerances on the specifications provided in these instructions.
- Modifications of these records are not permitted.
- In case of a complaint, only complete devices returned in original packing will be accepted.

Commissioning is mandatory and may only be performed by qualified personnel!

These instructions must be read before installation and commissioning and all notes provided therein are to be regard!



The communication adapter KA2 Modbus is connected directly to the **PC** via **USB** port.
There is no need for an additional power supply.

The S+S software **MODKON RTU** is included in the scope of delivery.
The supplied USB stick contains detailed information on how to use the current software version.

The **KA2 Modbus** is displayed on the PC as COM interface "COM9 SPLUSS" (Fig.1).
After successful detection, the green status LED **INT-DC** lights up on the communication adapter, and the terminals **UB+** and **GND** are supplied with voltage (approx. 15 V).

In case of short circuit or overload, the integrated electronic **fuse** reacts and switches off the supply.
This state is indicated by the red status LED **>Imax**.
The fuse is reset by unplugging the USB connection and plugging it in again.

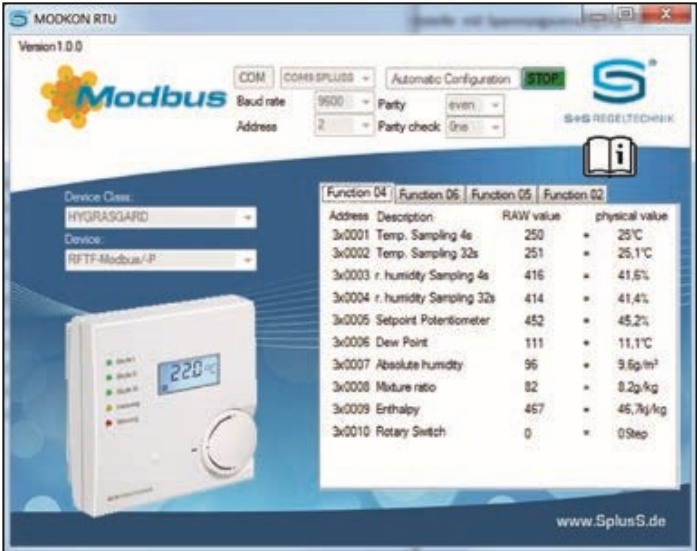
If an S+S Modbus sensor is connected to the communication adapter via the **RS485** interface,
the two LEDs **TX** (transmit telegram) and **RX** (receive telegram) indicate the bus activity.

The Auto Scan function of the software (Fig.1) automatically detects the device type, the device address and the set bus parameters.
This enables communication with the connected Modbus sensor in a very convenient way and without having to make further settings (Fig. 2).

Fig. 1 | Auto Scan function of the software



Fig. 2 | Example HYGRASGARD® RFTF-Modbus



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Maßzeichnung
Dimensional drawing
Plan coté
Габаритный чертёж

KA2-Modbus

