## MODKON® KA2-Modbus

Communication adapter incl. software MODKON RTU, with USB and RS485 interface, for system connection of S+S Modbus sensors



S+S REGELTECHNIK

KA2-Modbus

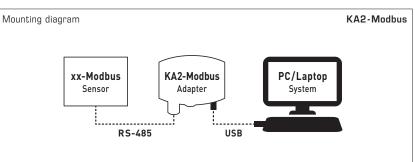
Communication adapter  $\rm MOD KON^{\otimes}$  KA2-Modbus T3 with USB and RS485 interface, in an impact-resistant plastic housing with quick-locking screws, incl. software.

The communication adapter serves as connecting element between an S+S Modbus sensor and a PC (Windows). A standard USB port enables quick and straightforward connection to the system; there is no need for an additional power supply.

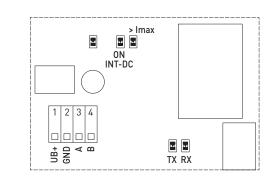
When used in combination with the S+S software  $\ensuremath{\text{MODKON RTU}}$  (included in delivery), it offers a very convenient way to test the response behaviour of the sensor. The Auto Scan function of the software automatically detects the device type, the device address and the set bus parameters. In this way, communication with the connected  $\ensuremath{\mathsf{S}}\xspace+\ensuremath{\mathsf{S}}\xspace+\ensuremath{\mathsf{S}}\xspace$ Modbus sensor is possible without the need for additional settings. The ideal first step to gain experience with Modbus technology.

### **TECHNICAL DATA**

Power supply:	takes place via USB connection
Output:	voltage: 15 V; current: 100 mA
Interfaces:	Standard <b>USB</b> port for system connection, power supply <b>RS485</b> interface for connection of an S+S Modbus sensor
Compatibility:	S+S Modbus sensors for the device classes <b>THERM</b> ASGARD®, <b>HYGR</b> ASGARD®, <b>PREM</b> ASGARD®, <b>AER</b> ASGARD®
Housing:	plastic, UV-resistant, polyamide material, 30% glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016)
Housing dimensions:	108 x 78.5 x 45.8 mm (Tyr 3)
Cable connection:	cable gland, plastic (M 20 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% RH, non-precipitating air
Protection class:	III (according to EN 60730)
Protection type:	IP 54 (according to EN 60 529) housing only!
Standards:	CE conformity according to EMC Directive $2014/30/EU$



Connecting diagram



#### Push-in terminal

- +UB Output supply for S+S Modbus sensor
- GND approx. 15V (max. 100mA) with supply via USB
- RS485 Modbus A/B

#### Status LEDs

- Electronic fuse approx. 150mA >lmax INT-DC
  - Internal supply (USB) ТΧ Transmit telegrams
  - Receive telegrams RX



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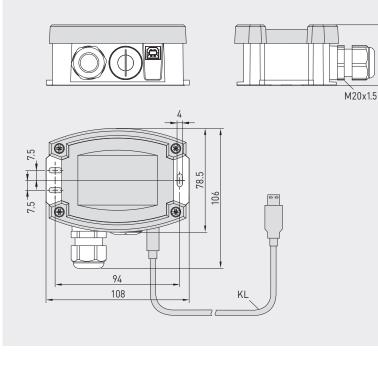


Dimensional drawing

KA2-Modbus

45.8







		COM CO	M9 SPLUSS	Automatic	Configura	tion STOP		5
23	Modbus	Baud rate	9600 -	Parity	even	*		
		Address	2 •	Parity check	One	*	S+SR	
D	evice Class:		Function	04 Function	06   Fun	ction 05 Fund	tion 02	
	MGRASGARD	-		Description	0.0	RAW value		hysical value
	evice:			Temp. Sampli	ing 4s	250	-	25°C
	FTF-Modbus/-P	-	3x0002	Temp. Sampli	ing 32s	251		25.1°C
		the second	3x0003	r. humidity Sa	mpling 4s	416	-	41,6%
	2017 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		3x0004	r. humidity Sa	mpling 32	s 414	=	41.4%
-			3x0005	Setpoint Pote	ntiometer	452	-	45,2%
			3x0006	Dew Point		111	-	11,1°C
See	:	Ac	3x0007	Absolute hum	idity	96	-	9.6g/m <sup>3</sup>
	• 1441 CC.U.C		3x0008	Mixture ratio		82		8.2g/kg
	piperet e	-	3x0009	Enthalpy		467	-	46,7kj/kg
200	• 20140		3x0010	Rotary Switch	1	0	=	OStep
1		and the second						

Fig. shows the input screen of the S+S software MODKON RTU (included in the scope of delivery) based on the example of the S+S Modbus sensor HYGRASGARD® RFTF-Modbus

Type/WG01	Interfaces	Software	Item No.	Price
KA 2 - Modbus				
KA2-Modbus	USB + RS485	ΜΟΦΚΟΝ ΒΤυ	1906-1200-0000-100	229.23 €

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S+S REGELTECHNIK