

SCN-MBGRTU.01

KNX Modbus Gateway RTU485, 2 SU MDRC



Product description:

For bi-directional data exchange between Modbus RTU and the KNX bus. The MDT KNX Modbus Gateway can be used as a Modbus master or slave and integrates Modbus devices such as wallboxes, photovoltaic inverters, energy meters or climate control units. Up to 200 individual channels are available to the user.

Product functions:

- 200 freely configurable channels
- Master/Slave mode individually selectable for each channel
- Slave ID can be set individually for each channel
- **User friendly scaling settings**
- **Conversion of value ranges for each channel**
- **Comprehensive binary and arithmetic mathematical functions configurable for each channel**
- **Modbus multi-read/write functionality**
- **Read/write function with 2 objects per channel**
- 20 value comparison blocks each with 4 comparable values
- **Message texts to indicate device status**
- Universally applicable, supports a wide range of Modbus and KNX data types
- **No additional power supply required**
- Power supplied through the KNX bus
- Modbus and KNX bus galvanically isolated
- Development and production in Engelskirchen
- 3 year warranty

Technical data:

Device	Device type	SCN Modbus Gateway
	Article Number	SCN-MBGRTU.01
	EAN / GTIN	4251916100162
	Installation width	2 SU / 36 mm
	Dimensions (H x W x D)	90 x 36 x 65 mm
	Weight, gross (incl. packaging)	0.094 kg
	Protection classification	IP20
	Installation type	MDRC, DIN rail 35 mm
	Installation position	any
	Weight, net	0.072 kg
	Number of Modbus participants	32
	Physical Modbus interface	RS485, 2-wire
	Modbus power supply	Integrated via KNX bus
	Modbus transmission mode	RTU, ASCII
	Termination resistor	120 Ω, to be activated
KNX	Nominal voltage KNX	30 V DC SELV
	Voltage range KNX	21 ... 31 V DC SELV
	Typical power consumption KNX bus	< 0,9 W
	KNX Medium	TP-256 with long frame support
	KNX Application	as of ETS 5 (latest)
Environmental conditions	Ambient operating temperature	0 ... 45 °C
	Storage	-20 ... +55 °C
	Humidity	< 95 %
Connections	Connection type	Modbus, screw terminal with slotted head
	Conductor cross section 1 x	0,5 ... 2,5 mm ²
	Screw terminal tightening torque	0.5 Nm
	KNX connection type	KNX terminal
	KNX cable cross section	0.6 ... 0.8 mm, solid conductor

Wiring diagram:

