

# RESI-KNX-MODBUS

Communicate with your host with MODBUS/RTU protocol with a KNX/EIB network



Our KNX MODBUS/RTU converter is a bridge between standard host computers with an MODBUS/RTU interface and KNX networks. The gateway is connected to the host via RS232 or RS485 interface. With our MODBUS configurator software tool, you can generate a mapping table between the MODBUS holding registers and the KNX group addresses for our converter. This product is an ideal solution to enable controller, which do not support a native KNX interface, to exchange data with a KNX network. This affects standard PLCs like SIEMENS®, SCHNIEDER® or BECKOFF®, but also DDCs, mini computer like the Raspberry PI®, standard PCs or touch panels.



This product convinces with a very simple configuration of the mapping between MODBUS/RTU holding registers and KNX groups. With MODBUS/RTU registers you can read the KNX groups, but you can also write to KNX groups.

The converter supports the following data formats on the KNX side: BIT, TWOBITS, FOURBITS, SIXBITS, CHARACTER, UINT8, SINT8, UINT16, SINT16, FLOAT16, TIME, DATE, UINT32, SINT32, FLOAT32, STRING, GENERIC, DATETIME

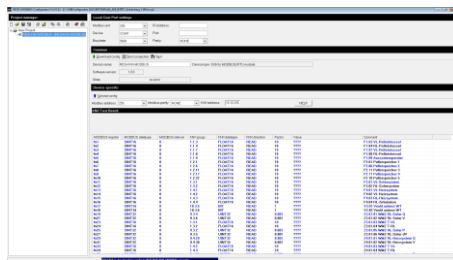
On the MODBUS/RTU side the converter supports the following data types: UINT16, SINT16, UINT32, SINT32, UINT32R, SINT32R, FLOAT32, FLOAT32R, DOUBLE64, DOUBLE64R, GENERIC, ASCII

An additional scaling factor allows the adaption of the number range in the MODBUS/RTU register.

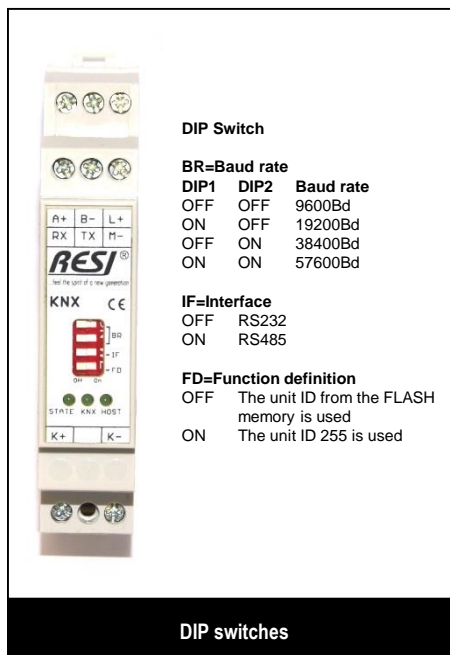
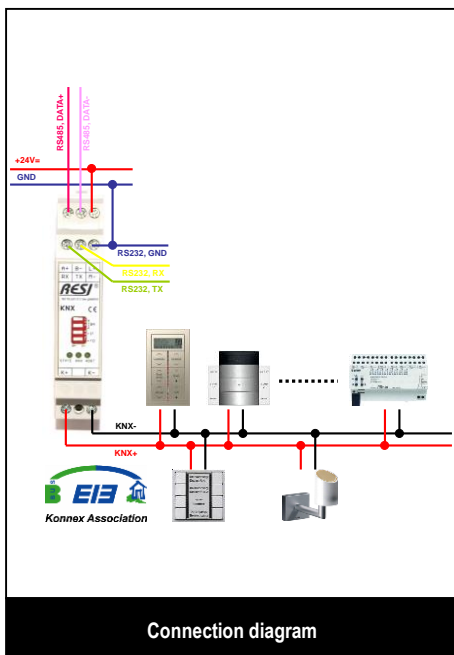
Configuration is done with our free software tool MODBUS configurator.

## RESI-KNX-MODBUS

Connects a host with MODBUS/RTU interface to EIB/KNX bus, Host communication: via RS232 or RS485 with MODBUS/RTU protocol, Host baud rates: 9600, 19200, 38400 or 57600Bd, no or even parity, 8 data bits, 1 stop bit, all 32768 EIB/KNX groups are supported, Galvanic insulation between EIB/KNX and serial interface, mapping table size: 300 configuration entries, configuration of EIB/KNX groups, MODBUS holding registers and datatypes with our free PC software MODBUS configurator, Weight: 55g, Dimension (LxWxH): 17,5x90x58mm, Power supply: 24V=, Power consumption: <0.5W, Mountable onto a EN50022 DIN rail.



MODBUS register	MODBUS datatype	MODBUS interval	KNX group	KNX datatype	KNX direction	Factor	Value	Comment
4x1	SINT16	0	1.1.3	FLOAT16	READ	10	????	F1.03 VL-Pelletsessel
4x2	SINT16	0	1.1.4	FLOAT16	READ	10	????	F1.04 VL-Pelletsessel
4x3	SINT16	0	1.1.7	FLOAT16	READ	10	????	F1.07 VL-Pelletsessel
4x4	SINT16	0	1.1.8	FLOAT16	READ	10	????	F1.08 VL-Pelletsessel
4x5	SINT16	0	1.1.9	FLOAT16	READ	10	????	F1.09 Ausseitemperatur
4x6	SINT16	0	1.2.1	FLOAT16	READ	10	????	F2.01 Pufferspeicher 1
4x7	SINT16	0	1.2.6	FLOAT16	READ	10	????	F2.06 Pufferspeicher 2
4x8	SINT16	0	1.2.11	FLOAT16	READ	10	????	F2.11 Pufferspeicher 3
4x9	SINT16	0	1.2.17	FLOAT16	READ	10	????	F2.17 Pufferspeicher 4
4x10	SINT16	0	1.2.22	FLOAT16	READ	10	????	F2.18 Pufferspeicher 5
4x11	SINT16	0	1.3.1	FLOAT16	READ	10	????	F3.01 VL-Solarsystem
4x12	SINT16	0	1.3.2	FLOAT16	READ	10	????	F3.02 RL-Solarsystem
4x13	SINT16	0	1.4.1	FLOAT16	READ	10	????	F4.01 VL-Heizsystem
4x14	SINT16	0	1.4.2	FLOAT16	READ	10	????	F4.02 VL-Heizsystem
4x15	SINT16	0	1.4.3	FLOAT16	READ	10	????	F4.03 RL-Heizsystem
4x16	SINT16	0	1.4.4	FLOAT16	READ	10	????	F4.04 RL-Zirkulation
4x17	UINT16	0	10.3.5	BIT	READ	1	????	V3.01 Ventil unterer WT
4x18	UINT16	0	10.3.6	BIT	READ	1	????	V3.02 Ventil unterer WT
4x19	SINT32	0	9.3.4	UINT32	READ	0.001	????	Z3.01.01 WMZ RL-Solar O
4x21	SINT32	0	9.3.6	UINT32	READ	0.001	????	Z3.01.02 WMZ RL-Solar V
4x23	SINT16	0	1.3.1	FLOAT16	READ	10	????	Z3.01.03 WMZ T-VL
4x24	SINT16	0	1.3.2	FLOAT16	READ	10	????	Z3.01.04 WMZ T-RL
4x25	SINT32	0	9.3.2	UINT32	READ	0.001	????	Z3.01.05 WMZ RL-Solar P
4x27	SINT32	0	9.3.5	UINT32	READ	0.001	????	Z3.01.06 WMZ RL-Solar dV
4x29	SINT32	0	9.4.29	UINT32	READ	0.001	????	Z4.01.01 WMZ RL-Heizsystem O
4x31	SINT32	0	9.4.30	UINT32	READ	0.001	????	Z4.01.02 WMZ RL-Heizsystem V
4x33	SINT16	0	1.4.2	FLOAT16	READ	10	????	Z4.01.03 WMZ T-VL
4x34	SINT16	0	1.4.3	FLOAT16	READ	10	????	Z4.01.04 WMZ T-RL



- ### AT A GLANCE
- Connects a host with a serial MODBUS/RTU interface to a KNX network
  - Mapping table between MODBUS holding register and KNX groups
  - Max. 300 mappings
  - Host communication: via RS232 or RS485
  - Host baud rates: 9600, 19200, 38400 or 57600Bd, no or even parity, 8 data bits, 1 stop bit
  - galvanic insulation between KNX and RS232/RS485 interface
  - supports all 32.767 KNX group addresses
  - Power supply: 24V=
  - Power consumption: <0.5W
  - Mountable onto a EN50022 DIN rail



... feel the spirit of a new generation