

GATEWAYS

it's all about perfection _____

RESI



STRIVE IN PERFECTION
IN WHATEVER YOU
DO
TAKE THE BEST THAT
EXISTS AND MAKE IT
BETTER
WHEN IT DOES NOT
EXIST. DESIGN IT.

Sir Henry Royce

CONTENT

In this catalog you will find all our product range for our gateways for MBUS, DALI, DMX, LED STRIPES, KNX, ENOCEAN, USB, SMART METER, POWER SUPPLIES, ...

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M-BUS

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RESI

RESI-MBUSx-xxx

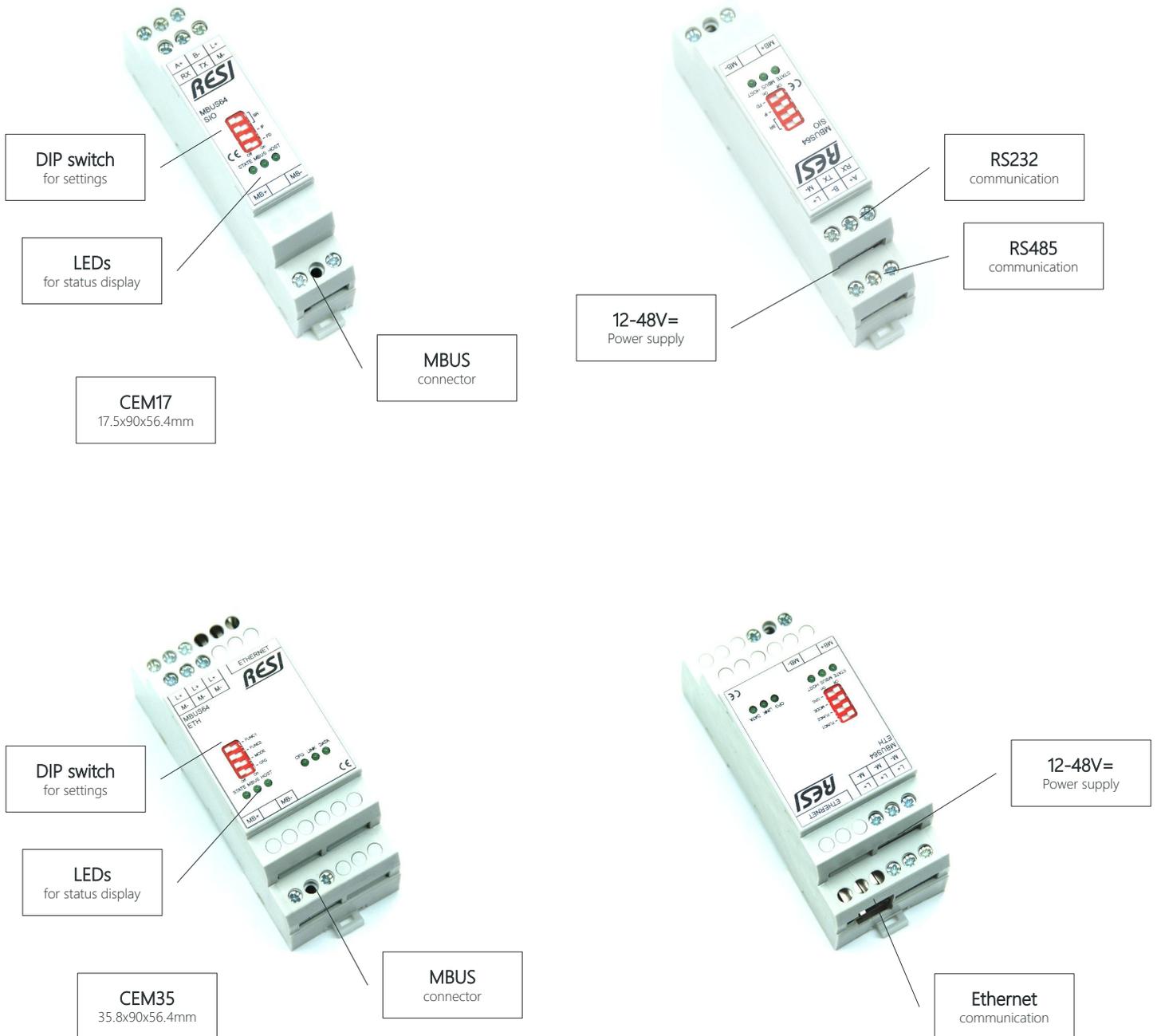
Our powerful gateways between M-BUS smart meter and MODBUS/RTU or MODBUS/TCP host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



RESI-MBUS2-SIO	RS232 RS485	MBUS	2 Meter	40 Registers	MODBUS/RTU Slave
RESI-MBUS8-SIO	RS232 RS485	MBUS	8 Meter	400 Registers	MODBUS/RTU Slave
RESI-MBUS24-SIO	RS232 RS485	MBUS	24 Meter	1000 Registers	MODBUS/RTU Slave
RESI-MBUS48-SIO	RS232 RS485	MBUS	48 Meter	1200 Registers	MODBUS/RTU Slave
RESI-MBUS64-SIO	RS232 RS485	MBUS	64 Meter	1200 Registers	MODBUS/RTU Slave
RESI-MBUS2-ETH	ETHERNET	MBUS	2 Meter	40 Registers	MODBUS/TCP Server
RESI-MBUS8-ETH	ETHERNET	MBUS	8 Meter	400 Registers	MODBUS/TCP Server
RESI-MBUS24-ETH	ETHERNET	MBUS	24 Meter	1000 Registers	MODBUS/TCP Server
RESI-MBUS48-ETH	ETHERNET	MBUS	48 Meter	1200 Registers	MODBUS/TCP Server
RESI-MBUS64-ETH	ETHERNET	MBUS	64 Meter	1200 Registers	MODBUS/TCP Server

RESI-MBUSx-xxx

Our powerful gateways between M-BUS smart meter and MODBUS/RTU or MODBUS/TCP host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



RESI-MBUSx-SIO

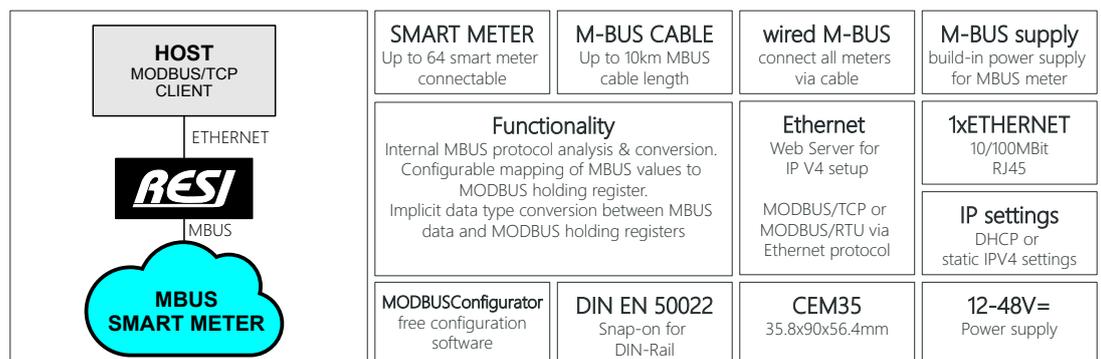
Our powerful gateways between M-BUS smart meter and MODBUS/RTU host with RS232 or RS485 interface. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



<p>HOST MODBUS/RTU MASTER</p> <p>RS232 RS485</p>  <p>MBUS</p> 	<p>SMART METER Up to 64 smart meter connectable</p>	<p>M-BUS CABLE Up to 10km MBUS cable length</p>	<p>wired M-BUS connect all meters via cable</p>	<p>M-BUS supply build-in power supply for MBUS meter</p>
	<p>Functionality Internal MBUS protocol analysis & conversion. Configurable mapping of MBUS values to MODBUS holding register. Implicit data type conversion between MBUS data and MODBUS holding registers</p>	<p>Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits</p>	<p>1xRS232 MODBUS/RTU slave protocol</p>	<p>1xRS485 MODBUS/RTU slave protocol</p>
<p>MODBUSConfigurator free configuration software</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM17 17.5x90x56.4mm</p>	<p>12-48V= Power supply</p>	

RESI-MBUSx-ETH

Our powerful gateways between M-BUS smart meter and MODBUS/TCP host with Ethernet interface. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



RESI-MBUSx-LVL-xxx

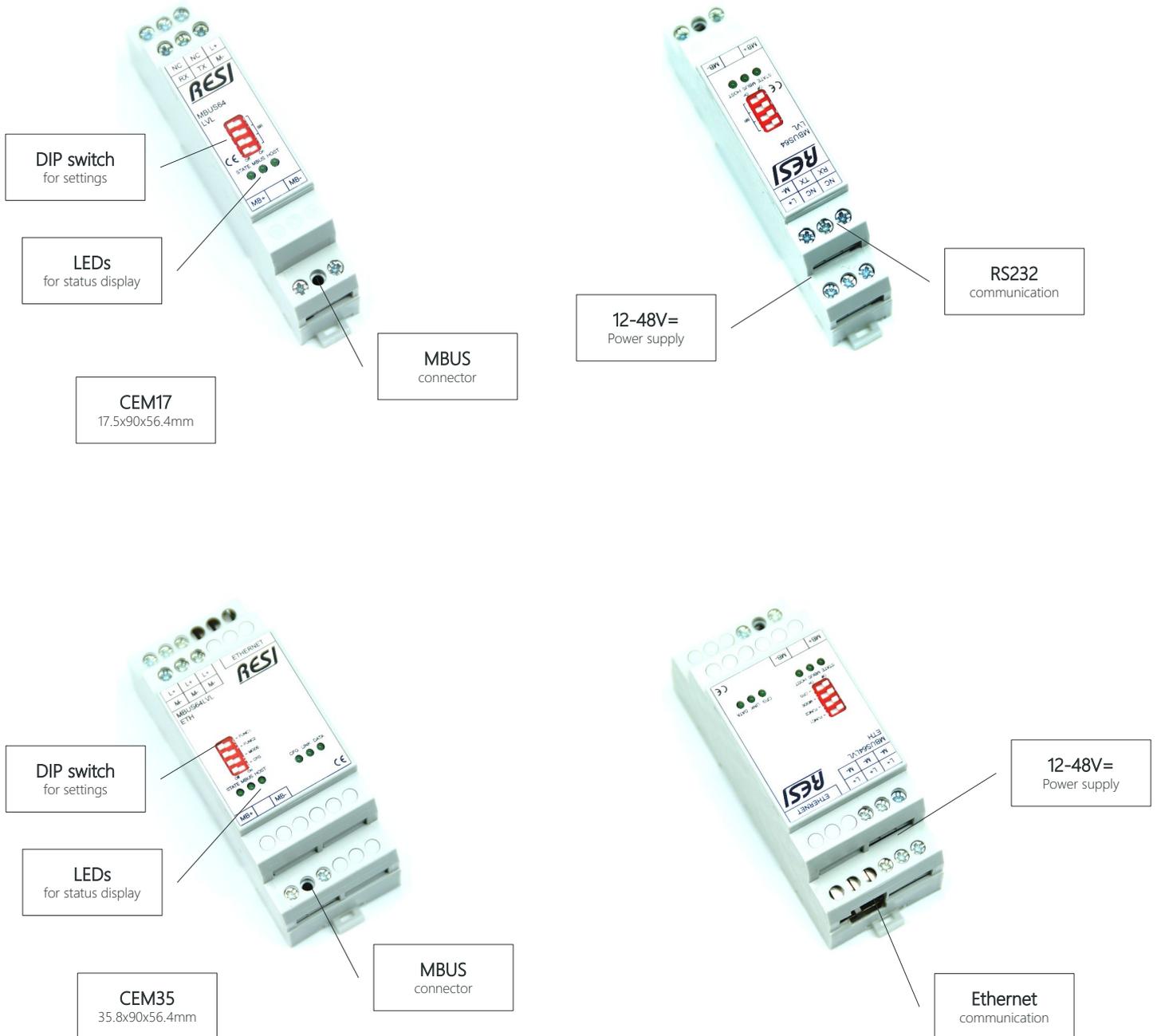
Our powerful level converters between M-BUS smart meter and host with RS232 interface or Ethernet. Host must be capable to read-out and interpret smart meter data based on M-BUS protocol according to EN 1434 and EN 13757. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



RESI-MBUS24-LVL	RS232	MBUS	24 Meter	M-BUS protocol
RESI-MBUS48-LVL	RS232	MBUS	48 Meter	M-BUS protocol
RESI-MBUS64-LVL	RS232	MBUS	64 Meter	M-BUS protocol
RESI-MBUS24LVL-ETH	ETHERNET	MBUS	24 Meter	M-BUS protocol
RESI-MBUS48LVL-ETH	ETHERNET	MBUS	48 Meter	M-BUS protocol
RESI-MBUS64LVL-ETH	ETHERNET	MBUS	64 Meter	M-BUS protocol

RESI-MBUSx-LVL-xxx

Our powerful level converters between M-BUS smart meter and host with RS232 interface or Ethernet. Host must be capable to read-out and interpret smart meter data based on M-BUS protocol according to EN 1434 and EN 13757. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



RESI-MBUSx-LVL

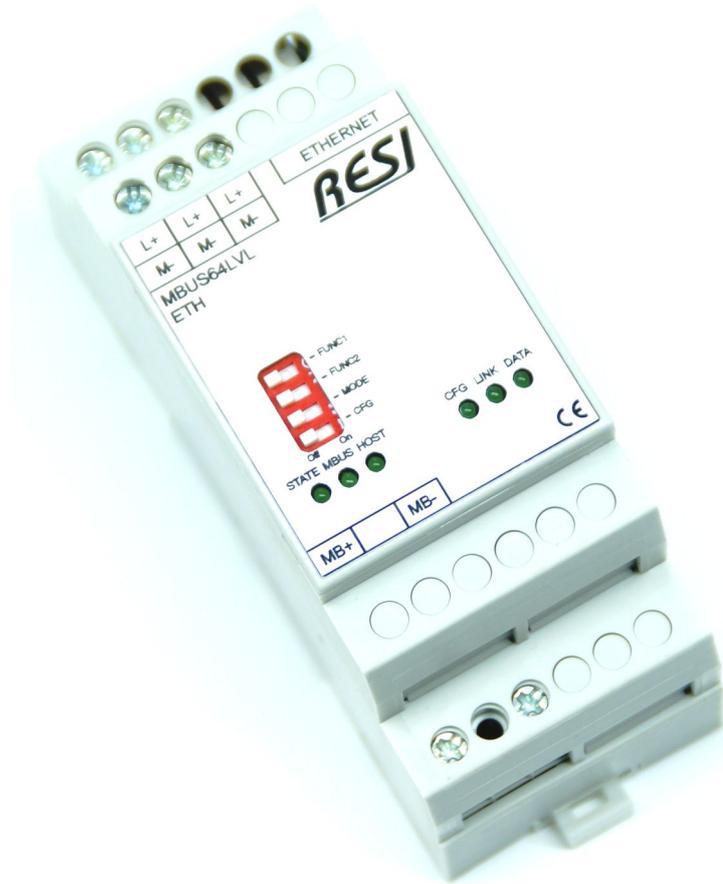
Our powerful level converters between M-BUS smart meter and host with RS232 interface. Host must be capable to read-out and interpret smart meter data based on M-BUS protocol according to EN 1434 and EN 13757 via serial RS232 interface. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



<p>HOST MBUS PROTOCOL</p> <p>RS232</p> <p>RESI</p> <p>MBUS</p> <p>MBUS SMART METER</p>	<p>SMART METER Up to 64 smart meter connectable</p>	<p>M-BUS CABLE Up to 10km MBUS cable length</p>	<p>wired M-BUS connect all meters via cable</p>	<p>M-BUS supply build-in power supply for MBUS meter</p>
<p>Functionality Level converter between M-BUS and RS232 Read-out with M-BUS protocol on RS232</p>	<p>M-BUS interface RS232 300..57600 baud Even parity 8 data bits 1 stop bit selected by DIP switch</p>	<p>RS232 interface MBUS protocol 300..57600 baud Even parity 8 data bits 1 stop bit selected by DIP switch</p>	<p>1xRS232 MBUS master protocol</p>	
<p>Own software use your own software to read-out M-BUS</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM17 17.5x90x56.4mm</p>	<p>12-48V= Power supply</p>	

RESI-MBUSxLVL-ETH

Our powerful level converters between M-BUS smart meter and host with Ethernet interface. Host must be capable to read-out and interpret smart meter data based on M-BUS protocol according to EN 1434 and EN 13757 via plain Ethernet TCP/IP socket. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



	SMART METER Up to 64 smart meter connectable	M-BUS CABLE Up to 10km MBUS cable length	wired M-BUS connect all meters via cable	M-BUS supply build-in power supply for MBUS meter	
	Functionality Level converter between M-BUS and Ethernet Read-out with M-BUS protocol via Socket	M-BUS interface Ethernet 300..57600 baud Even parity 8 data bits 1 stop bit selected by SW setup	Ethernet Web Server for IP V4 setup M-BUS protocol via plain Ethernet TCP/IP socket	1xETHERNET 10/100MBit RJ45	IP settings DHCP or static IPV4 settings
	Own software use your own software to read-out M-BUS	DIN EN 50022 Snap-on for DIN-Rail	CEM35 35.8x90x56.4mm	12-48V= Power supply	

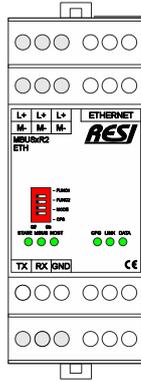
M-BUS with RS232

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RESI

RESI-MBUSxR2-xxx

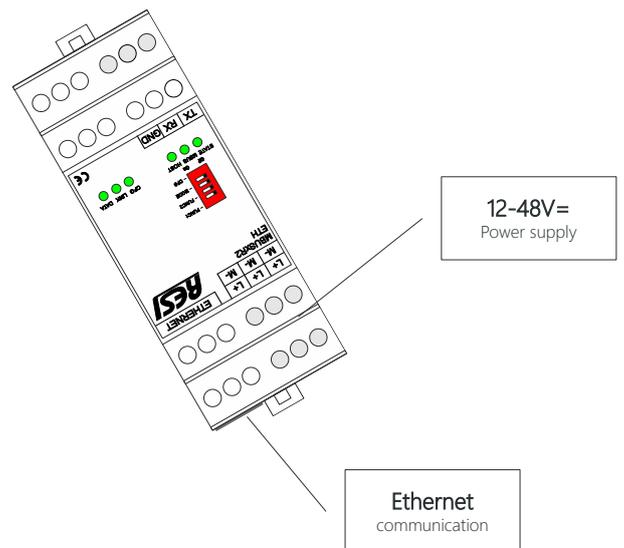
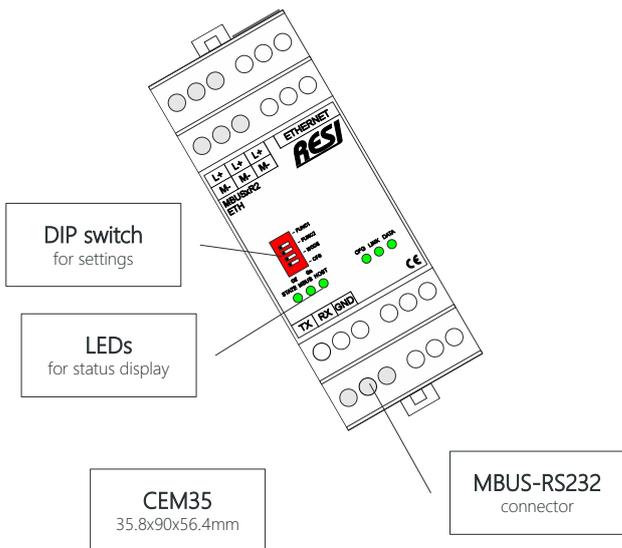
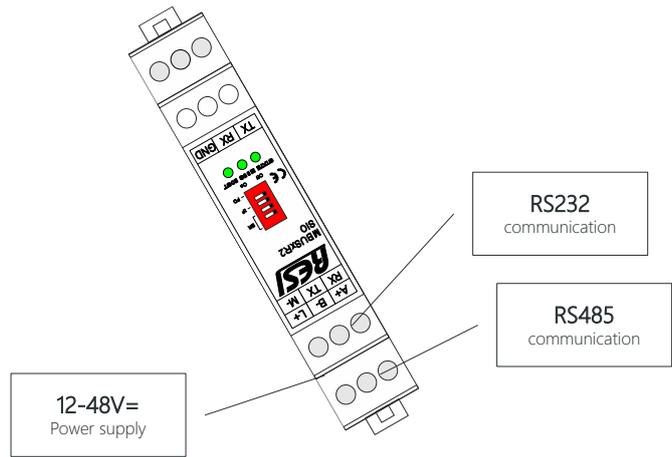
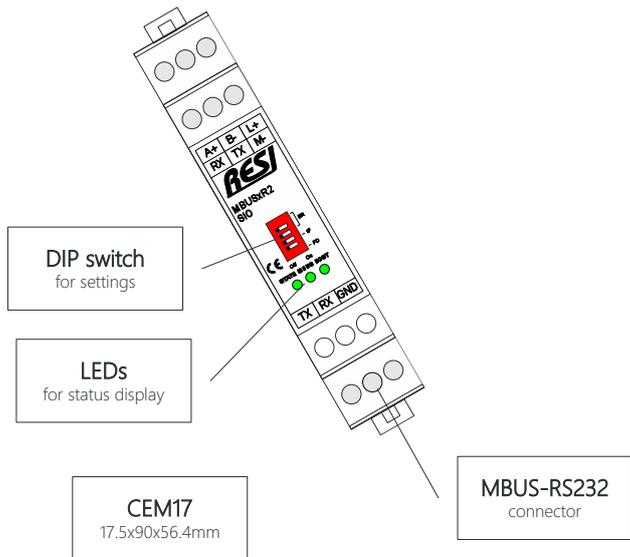
Our powerful gateways between M-BUS smart meter and MODBUS/RTU or MODBUS/TCP host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Smart meter must offer a RS232 interface or a RS232-MBUS level converter is installed. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



RESI-MBUS2R2-SIO	RS232 RS485	MBUS via RS232	2 Meter	40 Registers	MODBUS/RTU Slave
RESI-MBUS8R2-SIO	RS232 RS485	MBUS via RS232	8 Meter	400 Registers	MODBUS/RTU Slave
RESI-MBUS24R2-SIO	RS232 RS485	MBUS via RS232	24 Meter	1000 Registers	MODBUS/RTU Slave
RESI-MBUS48R2-SIO	RS232 RS485	MBUS via RS232	48 Meter	1200 Registers	MODBUS/RTU Slave
RESI-MBUS64R2-SIO	RS232 RS485	MBUS via RS232	64 Meter	1200 Registers	MODBUS/RTU Slave
RESI-MBUS2R2-ETH	ETHERNET	MBUS via RS232	2 Meter	40 Registers	MODBUS/TCP Server
RESI-MBUS8R2-ETH	ETHERNET	MBUS via RS232	8 Meter	400 Registers	MODBUS/TCP Server
RESI-MBUS24R2-ETH	ETHERNET	MBUS via RS232	24 Meter	1000 Registers	MODBUS/TCP Server
RESI-MBUS48R2-ETH	ETHERNET	MBUS via RS232	48 Meter	1200 Registers	MODBUS/TCP Server
RESI-MBUS64R2-ETH	ETHERNET	MBUS via RS232	64 Meter	1200 Registers	MODBUS/TCP Server

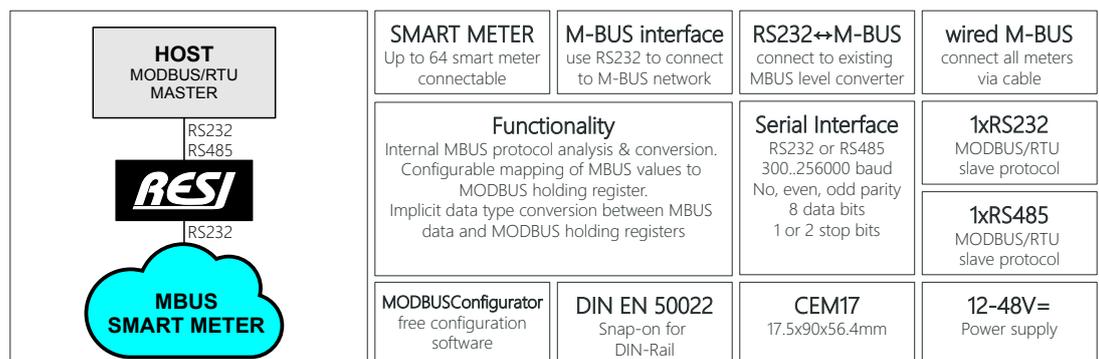
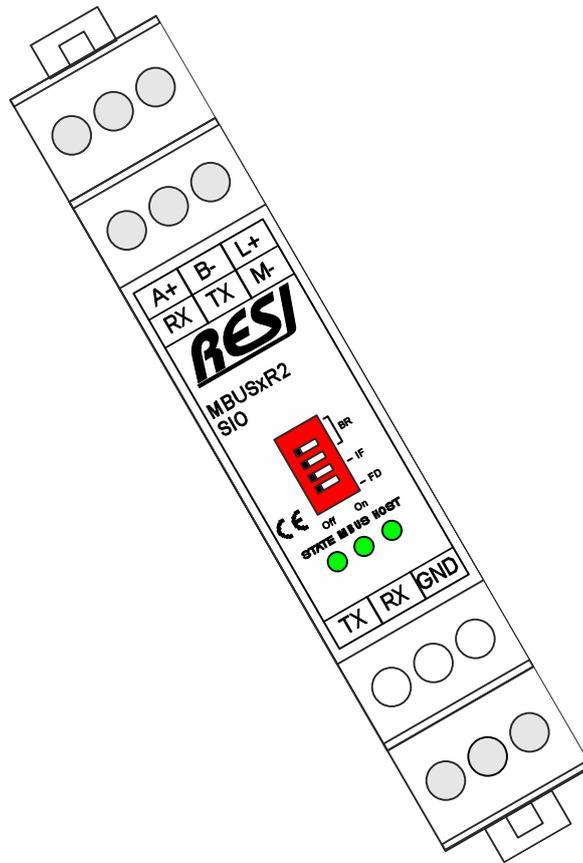
RESI-MBUSxR2-xxx

Our powerful gateways between M-BUS smart meter and MODBUS/RTU or MODBUS/TCP host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Smart meter must offer a RS232 interface or a RS232-MBUS level converter is installed. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



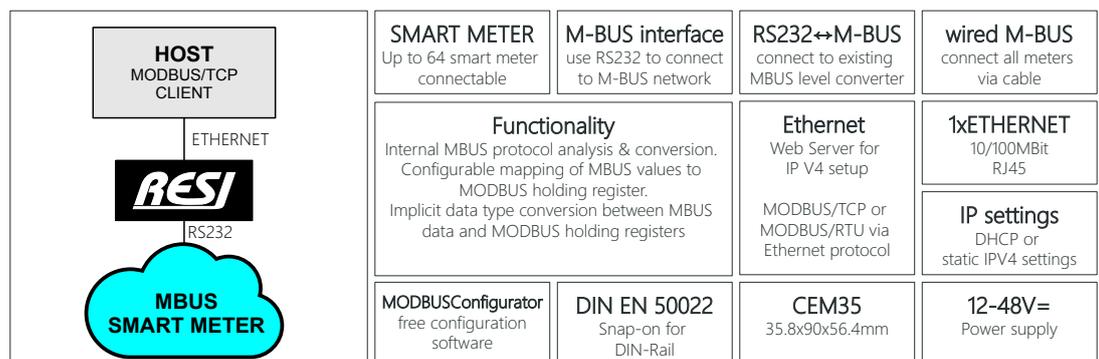
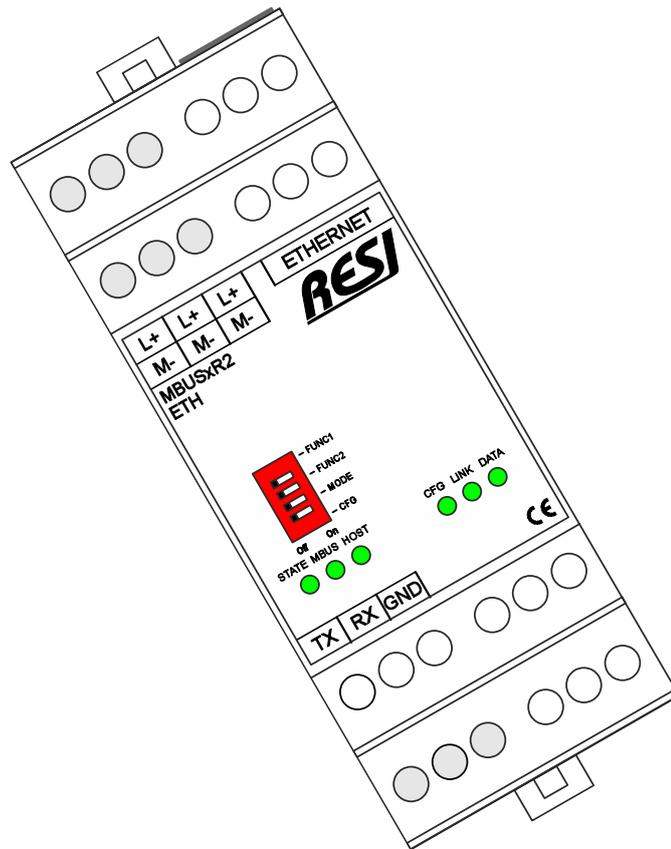
RESI-MBUSxR2-SIO

Our powerful gateways between M-BUS smart meter and MODBUS/RTU host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Smart meter must offer a RS232 interface or a RS232-MBUS level converter is installed. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



RESI-MBUSxR2-ETH

Our powerful gateways between M-BUS smart meter and MODBUS/TCP host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Smart meter must offer a RS232 interface or a RS232-MBUS level converter is installed. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



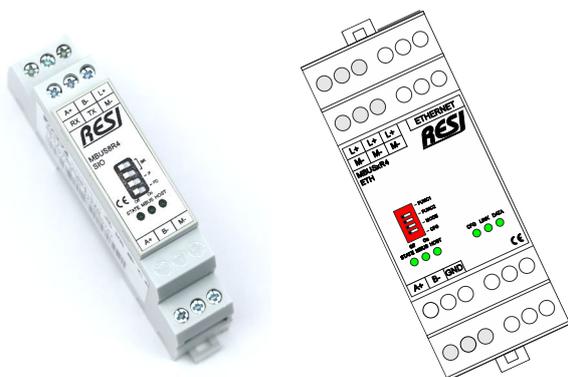
M-BUS with RS485

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RESI

RESI-MBUSxR4-xxx

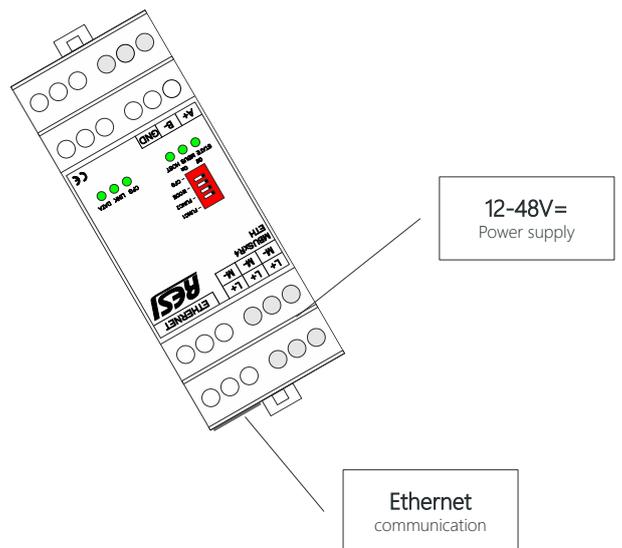
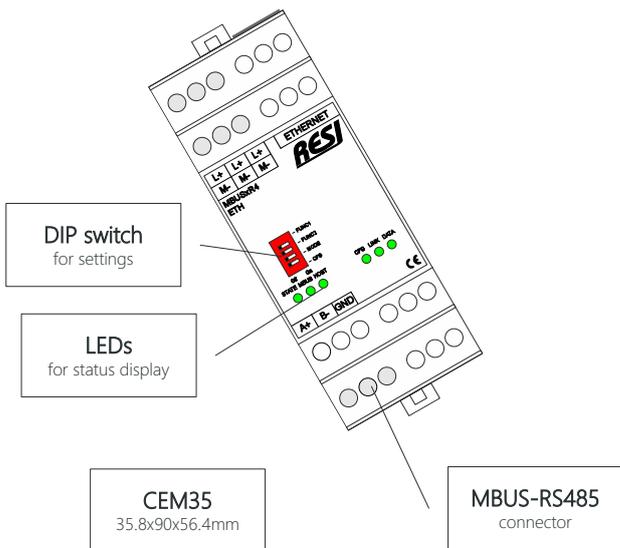
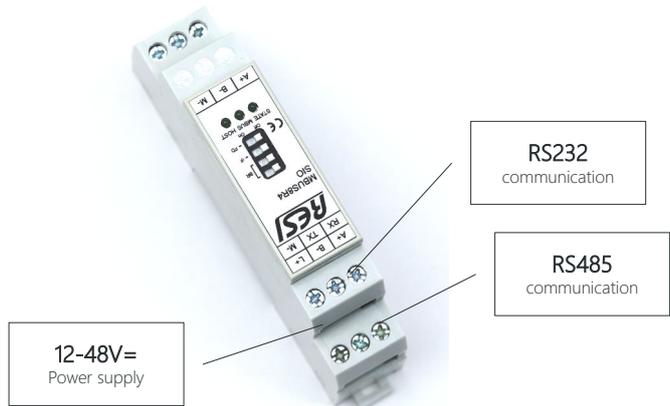
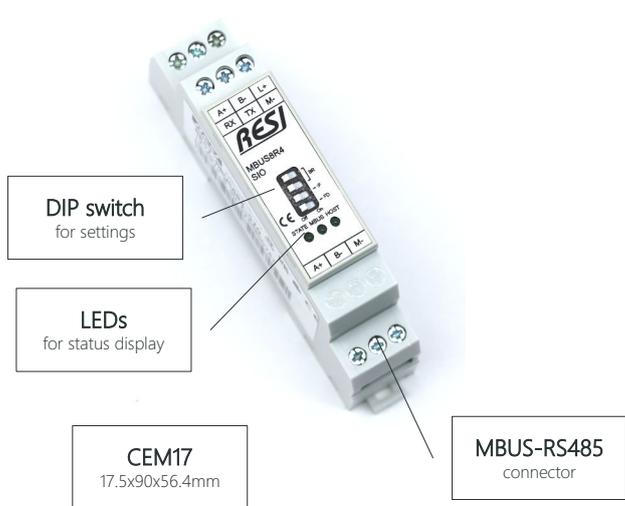
Our powerful gateways between M-BUS smart meter and MODBUS/RTU or MODBUS/TCP host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Smart meter must offer a RS485 interface for networking with M-BUS protocol. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



RESI-MBUS2R4-SIO	RS232 RS485	MBUS via RS485	2 Meter	40 Registers	MODBUS/RTU Slave
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RESI-MBUS24R4-SIO	RS232 RS485	MBUS via RS485	24 Meter	1000 Registers	MODBUS/RTU Slave
RESI-MBUS48R4-SIO	RS232 RS485	MBUS via RS485	48 Meter	1200 Registers	MODBUS/RTU Slave
RESI-MBUS64R4-SIO	RS232 RS485	MBUS via RS485	64 Meter	1200 Registers	MODBUS/RTU Slave
RESI-MBUS2R4-ETH	ETHERNET	MBUS via RS485	2 Meter	40 Registers	MODBUS/TCP Server
RESI-MBUS8R4-ETH	ETHERNET	MBUS via RS485	8 Meter	400 Registers	MODBUS/TCP Server
RESI-MBUS24R4-ETH	ETHERNET	MBUS via RS485	24 Meter	1000 Registers	MODBUS/TCP Server
RESI-MBUS48R4-ETH	ETHERNET	MBUS via RS485	48 Meter	1200 Registers	MODBUS/TCP Server
RESI-MBUS64R4-ETH	ETHERNET	MBUS via RS485	64 Meter	1200 Registers	MODBUS/TCP Server

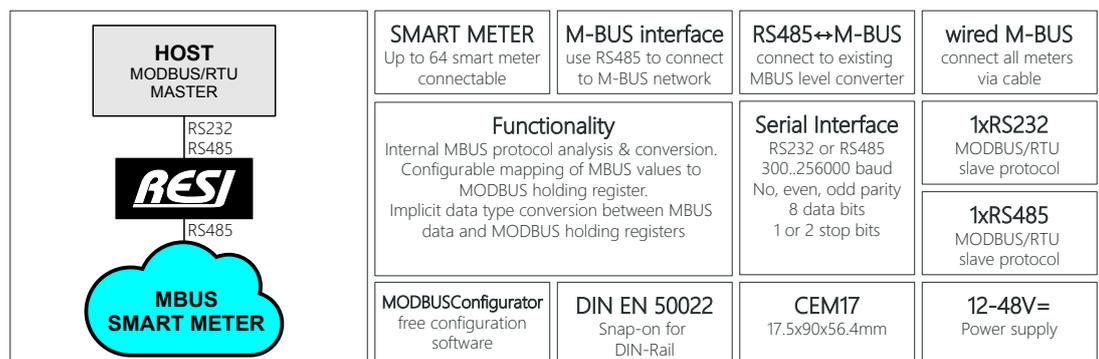
RESI-MBUSxR4-xxx

Our powerful gateways between M-BUS smart meter and MODBUS/RTU or MODBUS/TCP host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Smart meter must offer a RS485 interface for networking with M-BUS protocol. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



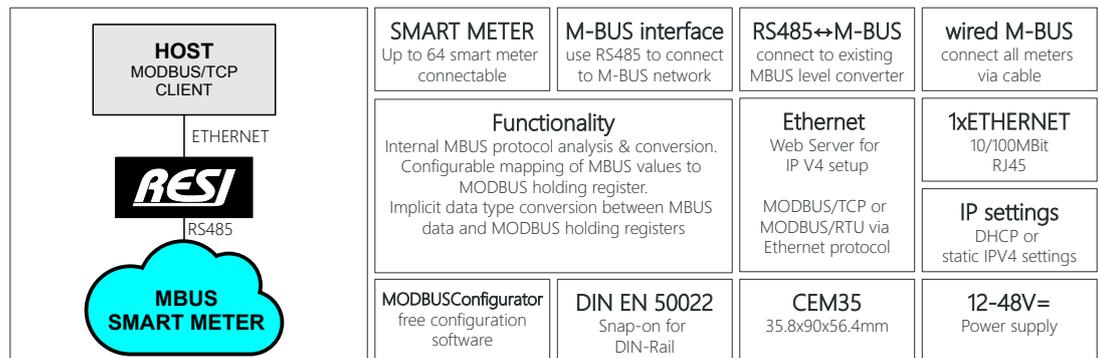
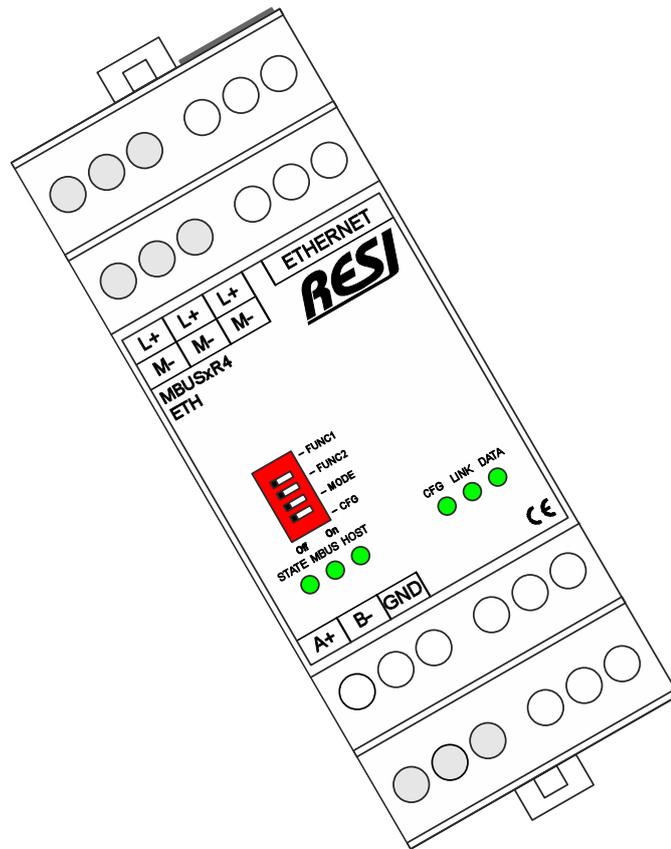
RESI-MBUSxR4-SIO

Our powerful gateways between M-BUS smart meter and MODBUS/RTU host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Smart meter must offer a RS485 interface for networking with M-BUS protocol. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



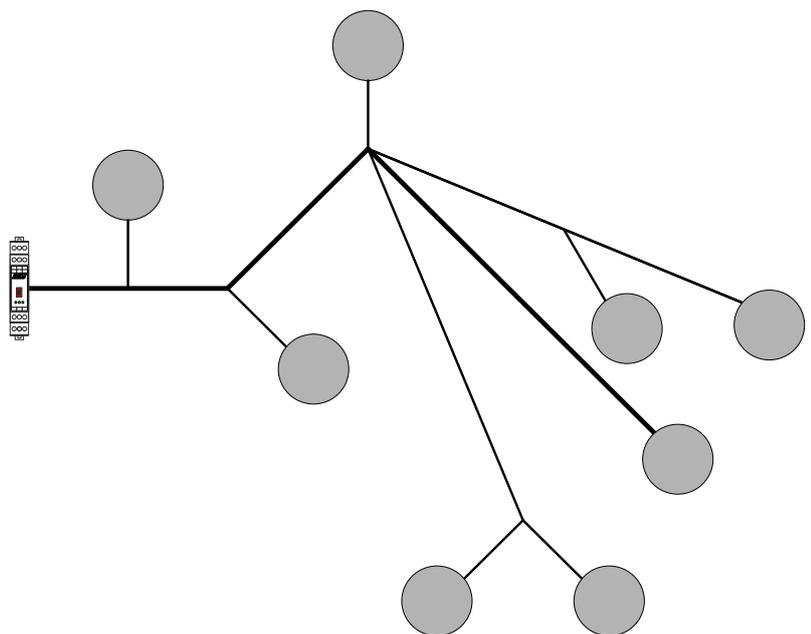
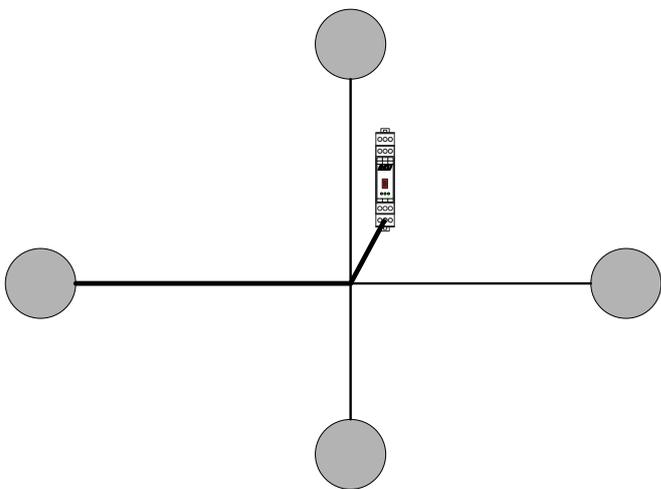
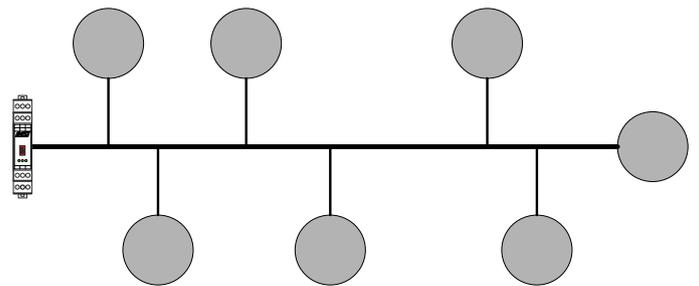
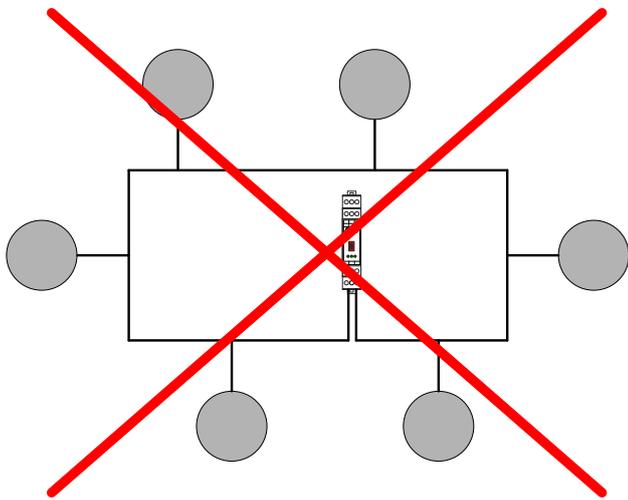
RESI-MBUSxR4-ETH

Our powerful gateways between M-BUS smart meter and MODBUS/TCP host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Smart meter must offer a RS485 interface for networking with M-BUS protocol. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



M-BUS cable topology

The M-BUS allows any kind of cable topology like line, star or tree. Only a ring topology is forbidden! Maximum cable length is 10km depending on the following parameters: type of cable, communication speed, maximum number of connected meters!



MODBUSConfigurator

RESI's MODBUS Configurator V1.10.3.1 - [Unnamed]

Local COM port settings

Modbus unit: 255 Device: COM8 Stopbits: 1 stopbit IP-Address:

Baudrate: 57600 Parity: NONE Port:

Device specific

Download config Test connection Tgstr

FRESHMBUS64-SIO MBUS to MODBUS/RTU converter for 64 meters (1200 registers)

Software version: 5.0.0 State: no error

Search M-Bus slaves Search M-Bus slaves via serial Save CSV file Erase configuration Application Reset Activate LEVEL converter Deactivate LEVEL converter

MODBUS

Address: 255 Parity: NONE Start 7 Baudrate: 2400

Baudrate: 57600 Stopbits: 1 stopbit End 251 Query timeout: 65535 Poll timeout: 65535

MB Register	MBUS datatype	MB datatype	Content	MBUS index	MB value HEX	Current MB value	Meter name
4x0001	INT32[4]	FLOAT32	Volume 10 ⁻³ m ³	0	MSW 0000.0000.LSW	0.0000.0.00000000000000E+0	Meter 20716229_2C2D_ID_16 IS
4x0003	INT32[4]	FLOAT32	Volume 10 ⁻³ m ³ -Accumulation of ebs value only if negative contrib	1	MSW 0000.0000.LSW	0.0000.0.00000000000000E+0	Meter 20716229_2C2D_ID_16 IS
4x0005	INT32[4]	UINT32	On time hours	2	MSW 0000.110A.LSW	4362.0x000110A	Meter 20716229_2C2D_ID_16 IS
4x0007	INT16[2]	FLOAT32	Volume flow 10 ⁻³ m ³ /h	3	MSW 0000.0000.LSW	0.0000.0.00000000000000E+0	Meter 20716229_2C2D_ID_16 IS
4x0009	INT8[1]	FLOAT32	External temperature 10 ⁰ °C	4	MSW 41E0.0000.LSW	29.0000.2.00000000000000E+1	Meter 20716229_2C2D_ID_16 IS
4x0011	INT16[2]	FLOAT32	Volume flow 10 ⁻³ m ³ /h	5	MSW 0000.0000.LSW	0.0000.0.00000000000000E+0	Meter 20716229_2C2D_ID_16 IS
4x0013	INT16[2]	FLOAT32	Volume flow 10 ⁻³ m ³ /h	6	MSW 0000.0000.LSW	0.0000.0.00000000000000E+0	Meter 20716229_2C2D_ID_16 IS
4x0015	INT8[1]	FLOAT32	External temperature 10 ⁰ °C	7	MSW 41A8.0000.LSW	21.0000.2.10000000000000E+1	Meter 20716229_2C2D_ID_16 IS
4x0017	INT8[1]	FLOAT32	External temperature 10 ⁰ °C	8	MSW 41F0.0000.LSW	30.0000.3.00000000000000E+1	Meter 20716229_2C2D_ID_16 IS
4x0019	INT8[1]	FLOAT32	External temperature 10 ⁰ °C-Average media temperature	9	MSW 41C0.0000.LSW	24.0000.2.40000000000000E+1	Meter 20716229_2C2D_ID_16 IS
4x0021	INT32[4]	DATE_TIME_T	Time&Date data type F	10	MSW 2488.3034.LSW	16.52.D.M.Y.08.04.20.ST0.IV.0.0x24883034	Meter 20716229_2C2D_ID_16 IS
4x0023	INT32[4]	FLOAT32	Volume 10 ⁻³ m ³ [U.0.T.0.S.1]	11	MSW 0000.0000.LSW	0.0000.0.00000000000000E+0	Meter 20716229_2C2D_ID_16 IS
4x0025	INT16[2]	FLOAT32	Volume flow 10 ⁻³ m ³ /h[U.0.T.0.S.1]	12	MSW 0000.0000.LSW	0.0000.0.00000000000000E+0	Meter 20716229_2C2D_ID_16 IS
4x0027	INT16[2]	FLOAT32	Volume flow 10 ⁻³ m ³ /h[U.0.T.0.S.1]	13	MSW 0000.0000.LSW	0.0000.0.00000000000000E+0	Meter 20716229_2C2D_ID_16 IS
4x0029	INT8[1]	FLOAT32	External temperature 10 ⁰ °C[U.0.T.0.S.1]	14	MSW 4170.0000.LSW	15.0000.1.50000000000000E+1	Meter 20716229_2C2D_ID_16 IS
4x0031	INT8[1]	FLOAT32	External temperature 10 ⁰ °C[U.0.T.0.S.1]	15	MSW 41C8.0000.LSW	25.0000.2.50000000000000E+1	Meter 20716229_2C2D_ID_16 IS
4x0033	INT8[1]	FLOAT32	External temperature 10 ⁰ °C-Average media temperature [U.0.T.0.S.1]	16	MSW 41B0.0000.LSW	22.0000.2.20000000000000E+1	Meter 20716229_2C2D_ID_16 IS
4x0035	INT16[2]	DATE_TY_P_G	Date data type G[U.0.T.0.S.1]	17	WORD 239F	D.M.Y.31.03.20.0x239F	Meter 20716229_2C2D_ID_16 IS
4x0036	INT16[2]	UINT16	Info code	18	WORD 0001	1.0x0001	Meter 20716229_2C2D_ID_16 IS
4x0037	INT16[2]	UINT16	Config number	19	MSW 00000017546486AE.LSW	1002001.22030.Dx17546486AE	Meter 20716229_2C2D_ID_16 IS
4x0041	INT16[2]	UINT16	Meter type	20	WORD 2203	8707.0x2203	Meter 20716229_2C2D_ID_16 IS
4x0042	INT16[2]	UINT16	Firmware version	21	WORD 0601	1537.0x0601	Meter 20716229_2C2D_ID_16 IS
4x09001	N/A	UINT16	Converter state for meter	STATE	WORD 0003	3.0x0003-> Values are valid!"	Meter 20716229_2C2D_ID_16 IS
4x09002	N/A	UINT32R	Identification number of meter	ID	LSW 6229.MSW 2071	544301609.0x20716229	Meter 20716229_2C2D_ID_16 IS
4x10001	N/A	UINT32	Identification number of meter	ID	MSW 2071.6229.LSW	544301609.0x20716229	Meter 20716229_2C2D_ID_16 IS
4x10003	N/A	UINT32->ASCII	Manufacturer of meter	MANUFACTURER	MSW 004D.414B.LSW	KAM	Meter 20716229_2C2D_ID_16 IS
4x10005	N/A	UINT16	Version of meter	VERSION	WORD 001D	29.0x001D	Meter 20716229_2C2D_ID_16 IS
4x10006	N/A	UINT16	Medium of meter	MEDIUM	WORD 0016	22.0x0016-> Cold Water	Meter 20716229_2C2D_ID_16 IS
4x10007	N/A	UINT16	Access of meter	ACCESS	WORD 00AD	173.0x00AD	Meter 20716229_2C2D_ID_16 IS
4x10008	N/A	UINT16	Status of meter	STATUS	WORD 0000	0.0x0000	Meter 20716229_2C2D_ID_16 IS
4x10009	N/A	UINT16	Future value of meter	FUTURE	WORD 0000	0.0x0000	Meter 20716229_2C2D_ID_16 IS
4x10010	N/A	UINT16	Communication state with meter	COMM STATE	WORD 0003	3.0x0003-> Values are valid!"	Meter 20716229_2C2D_ID_16 IS

RESI's MODBUS Configurator V1.10.3.1 - [Unnamed]

Common M-Bus slave settings

Change primary address: Read meter data

Slave name: Meter 14762517_4DEE_04_0D

Addressing mode: Primary meter address: 253 Current meter status: No error

Secondary meter address (hex): 14762517_4DEE_04_0D

Meter status: 0.0000

Manufacturer name: SON

Poll pre delay 1: 65535 Poll repeats 1: 65535

Poll pre delay 2: 65535 Poll repeats 2: 65535

Poll post delay 1: 65535

Poll post delay 2: 65535

Datapoints

Add datapoint Delete datapoint Add from database... Add to database...

Index	MBUS dataty...	MB datatype	Content	MBUS data	MBUS size	MBUS exponent	MB exponent
0	INT32	UINT32	Energy 10 ³ Wh	1-2	4	3	0
1	INT32	FLOAT32	Volume 10 ⁻² m ³	1-8	4	-2	0
2	INT24	UINT32	On time hours	1-14	3	0	0
3	BCD8	SINT32	Fabrication number	1-19	4	0	0
4	INT32	DATE_TIME_T	Time&Date data type F	1-25	4	0	0
5	FLOAT32	FLOAT32	Flow temperature 10 ⁰ °C	1-31	4	0	0
6	FLOAT32	FLOAT32	Return temperature 10 ⁰ °C	1-37	4	0	0
7	FLOAT32	FLOAT32	Volume flow 10 ⁻³ m ³ /h	1-43	4	0	0
8	FLOAT32	FLOAT32	Power 10 ⁰ W	1-49	4	0	0
9	FLOAT32	FLOAT32	Energy remainder	1-56	4	0	0
10	FLOAT32	FLOAT32	Volume remainder	1-63	4	0	0
11	INT16	UINT16	Error flags (binary)	1-70	2	0	0
12	INT8	UINT16	Actualy duration-seconds	1-74	1	0	0
13	INT8	UINT16	Averaging duration-seconds	1-77	1	0	0
14	INT8	UINT16	Write protection	1-81	1	0	0
15	INT8	UINT16	Software version	1-85	1	0	0
16	INT16	UINT16	Hardware version	1-89	2	0	0
17	VAR LENGTH	ASCII	Model/version	1-95	15	0	0
18	INT32	UINT32	Energy 10 ³ Wh[U.0.T.1.S.0]	1-113	4	3	0
19	FLOAT32	FLOAT32	Energy remainder[U.0.T.1.S.0]	1-121	4	0	0
20	BCD8	SINT32	Enhanced identification[U.1.T.0.S.0]	1-128	4	0	0
21	INT32	FLOAT32	Volume 10 ⁻² m ³ [U.1.T.0.S.0]	1-135	4	-2	0
22	INT8	FLOAT32	Volume 10 ⁻³ m ³ -increment per input pulse on input channel #0[...	1-143	1	-3	0
23	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.1]	2-3	4	3	0
24	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.2]	2-10	4	3	0
25	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.3]	2-17	4	3	0
26	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.4]	2-24	4	3	0
27	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.5]	2-31	4	3	0
28	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.6]	2-38	4	3	0
29	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.7]	2-45	4	3	0
30	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.8]	2-52	4	3	0
31	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.9]	2-59	4	3	0
32	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.10]	2-66	4	3	0
33	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.11]	2-73	4	3	0
34	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.12]	2-80	4	3	0
35	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.13]	2-87	4	3	0
36	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.14]	2-94	4	3	0
37	INT32	UINT32	Energy 10 ³ Wh[U.0.T.0.S.15]	2-101	4	3	0
38	INT32	FLOAT32	Volume 10 ⁻² m ³ [U.0.T.0.S.1]	3-3	4	-2	0

Simple test

Test read-out & display of meter data

Easy setup

auto search for connected meters

FREE

Download for free from www.RESI.cc

Windows based

DALI

it's all about perfection

RESI

RESI-DALI-xxx

Our powerful master gateways between DALI light bus and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Communicate with DALI 1.0 ballasts or with DALI 2.0 control gears. Support of DALI device type DT8 for RGB and RGBW LED stripes. Use our RESI-DALI-PS as power supply for your DALI light system. Or use our all-in-one solution RESI-DALI+PS-SIO or RESI-DALI+PS-ETH to communicate with your DALI bus system with only one unit.



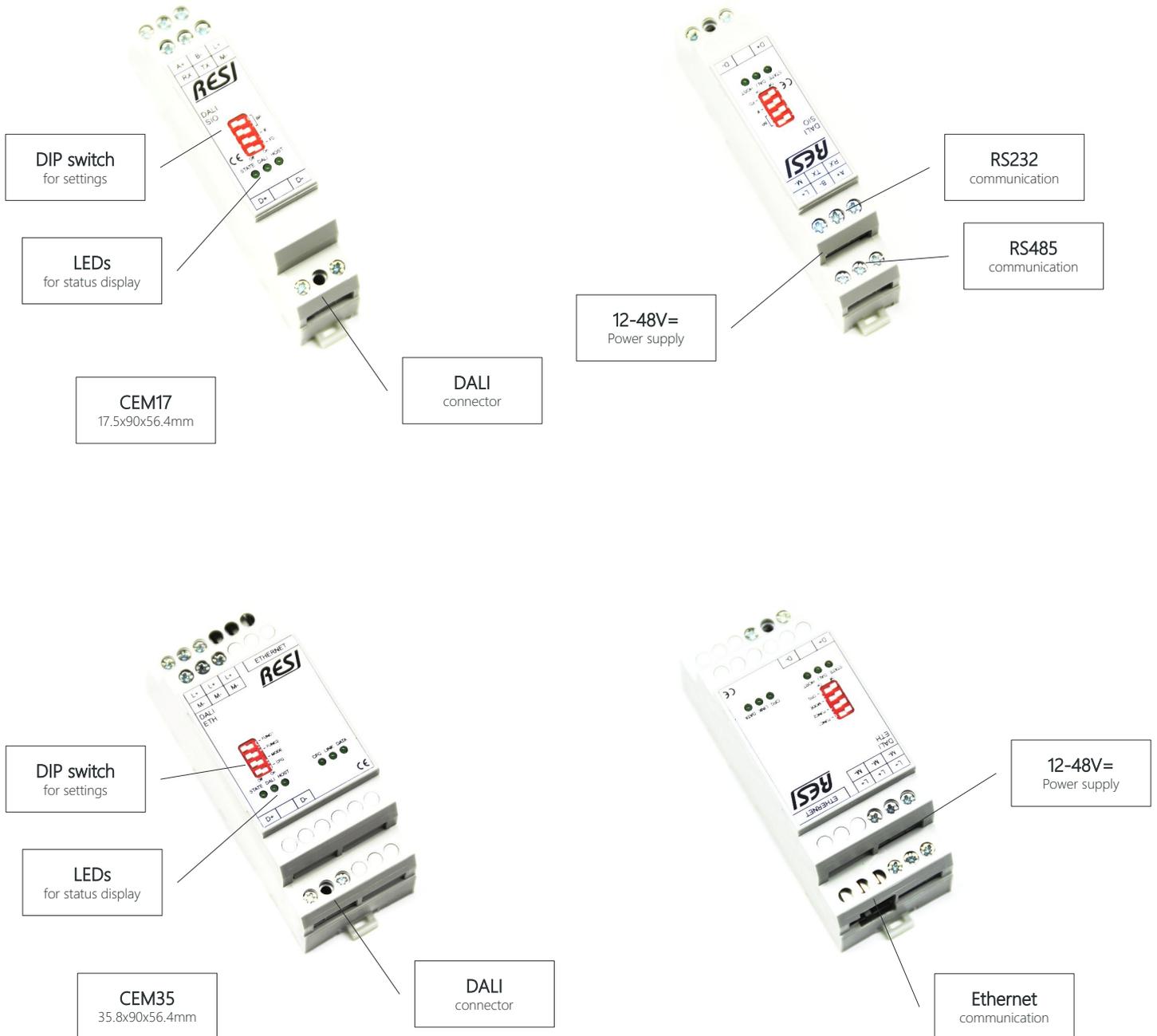
RESI-DALI-SIO	DALI Master	RS232 RS485	NO integrated DALI power supply	DALI 1.0 DALI 2.0	64 Ballasts	MODBUS/RTU Slave ASCII text protocol
RESI-DALI-ETH	DALI Master	ETHERNET	NO integrated DALI power supply	DALI 1.0 DALI 2.0	64 Ballasts	MODBUS/TCP Server ASCII text socket
RESI-DALI-PS	DALI Power supply	12-48V= Power supply	DALI output current $\leq 200\text{mA}$			



RESI-DALI+PS-SIO	DALI Master with integrated DALI power supply	RS485	Switchable DALI power supply $\leq 250\text{mA}$	DALI 1.0 DALI 2.0	64 Ballasts	MODBUS/RTU Slave ASCII text protocol
RESI-DALI+PS-ETH	DALI Master with integrated DALI power supply	ETHERNET	Switchable DALI power supply $\leq 250\text{mA}$	DALI 1.0 DALI 2.0	64 Ballasts	MODBUS/TCP Server ASCII text socket

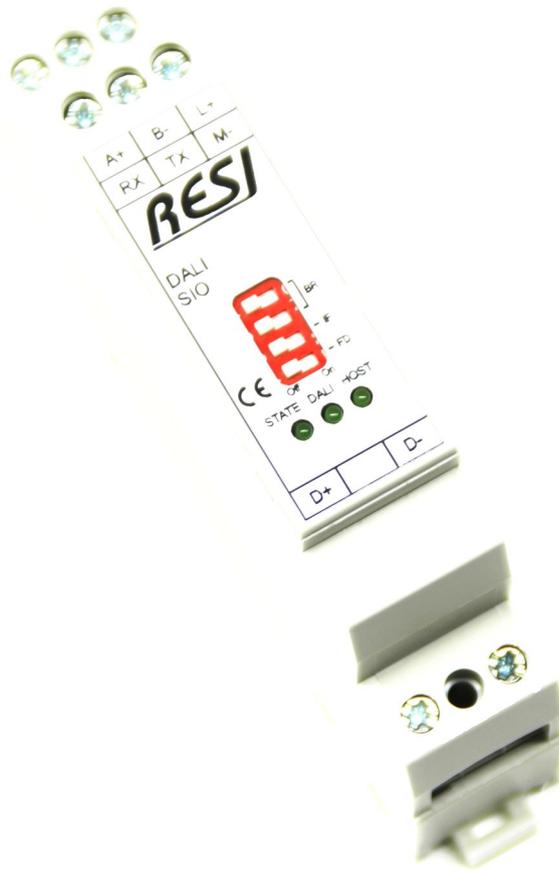
RESI-DALI-xxx

Our powerful master gateways between DALI light bus and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Communicate with DALI 1.0 ballasts or with DALI 2.0 control gears. Support of DALI device type DT8 for RGB and RGBW LED stripes. Use our RESI-DALI-PS as power supply for your DALI light system. Or use our all-in-one solution RESI-DALI+PS-SIO or RESI-DALI+PS-ETH to communicate with your DALI bus system with only one unit.



RESI-DALI-SIO

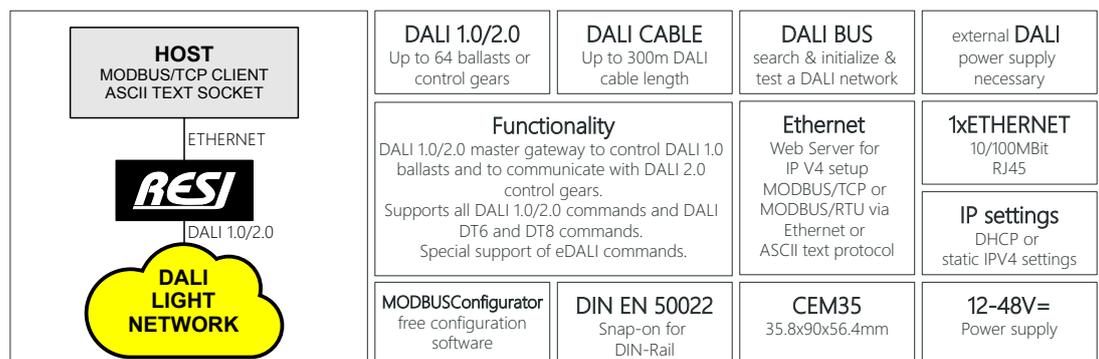
Our powerful master gateway between DALI light bus and host. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Communicate with DALI 1.0 ballasts or with DALI 2.0 control gears. Support of DALI device type DT8 for RGB and RGBW LED stripes. Configuration & test of DALI light system with our free software MODBUSConfigurator.



<p>HOST MODBUS/RTU MASTER ASCII TEXT</p> <p>RS232 RS485</p> <p>RESI</p> <p>DALI 1.0/2.0</p> <p>DALI LIGHT NETWORK</p>	<p>DALI 1.0/2.0 Up to 64 ballasts or control gears</p>	<p>DALI CABLE Up to 300m DALI cable length</p>	<p>DALI BUS search & initialize & test a DALI network</p>	<p>external DALI power supply necessary</p>
	<p>Functionality DALI 1.0/2.0 master gateway to control DALI 1.0 ballasts and to communicate with DALI 2.0 control gears. Supports all DALI 1.0/2.0 commands and DALI DT6 and DT8 commands. Special support of eDALI commands.</p>	<p>Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits</p>	<p>1xRS232 MODBUS/RTU slave ASCII text protocol</p>	<p>1xRS485 MODBUS/RTU slave ASCII text protocol</p>
	<p>MODBUSConfigurator free configuration software</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM17 17.5x90x56.4mm</p>	<p>12-48V= Power supply</p>

RESI-DALI-ETH

Our powerful master gateway between DALI light bus and host. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Communicate with DALI 1.0 ballasts or with DALI 2.0 control gears. Support of DALI device type DT8 for RGB and RGBW LED stripes. Configuration & test of DALI light system with our free software MODBUSConfigurator.



RESI-DALI-PS

Our ultra slim DALI power supply with 200mA maximum output current on the DALI bus for connecting up to 64 DALI 1.0 ballasts or DALI 2.0 control gears. Primary power supply with 12-48Vdc.



 POWER for DALI 		DALI output current ≤200mA
	OVERLOAD protection with ERR LED	Functionality Power supply for DALI network
	DALI TRAFFIC LED	CEM17 17.5x90x56.4mm
	DIN EN 50022 Snap-on for DIN-Rail	12-48V= Power supply

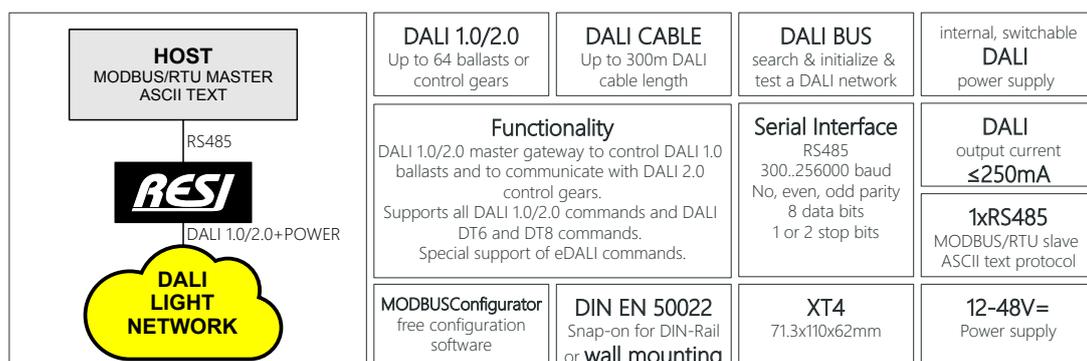
RESI-DALI+PS-xxx

Our powerful master gateway between DALI light bus and host with integrated, switchable DALI power supply. Host protocols: MODBUS/RTU or MODBUS/TCP or ASCII text. Host communication via RS485 serial interface or via Ethernet. Integrated, switchable DALI power supply with max. 250mA DALI output current. Communicate with DALI 1.0 ballasts or with DALI 2.0 control gears. Support of DALI device type DT8 for RGB and RGBW LED stripes. Configuration & test of DALI light system with our free software MODBUSConfigurator.



RESI-DALI+PS-SIO

Our powerful master gateway between DALI light bus and host with integrated, switchable DALI power supply. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS485 serial interface. Integrated, switchable DALI power supply with max. 250mA DALI output current. Communicate with DALI 1.0 ballasts or with DALI 2.0 control gears. Support of DALI device type DT8 for RGB and RGBW LED stripes. Configuration & test of DALI light system with our free software MODBUSConfigurator.



RESI-DALI+PS-ETH

Our powerful master gateway between DALI light bus and host. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Integrated, switchable DALI power supply with max. 250mA DALI output current. Communicate with DALI 1.0 ballasts or with DALI 2.0 control gears. Support of DALI device type DT8 for RGB and RGBW LED stripes. Configuration & test of DALI light system with our free software MODBUSConfigurator.



<p>HOST MODBUS/TCP CLIENT ASCII TEXT SOCKET</p> <p>ETHERNET</p> <p>RESI</p> <p>DALI 1.0/2.0+POWER</p> <p>DALI LIGHT NETWORK</p>	<p>DALI 1.0/2.0 Up to 64 ballasts or control gears</p>	<p>DALI CABLE Up to 300m DALI cable length</p>	<p>DALI BUS search & initialize & test a DALI network</p>	<p>internal, switchable DALI power supply</p>
	<p>Functionality DALI 1.0/2.0 master gateway to control DALI 1.0 ballasts and to communicate with DALI 2.0 control gears. Supports all DALI 1.0/2.0 commands and DALI DT6 and DT8 commands. Special support of eDALI commands.</p>	<p>Ethernet Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet or ASCII text protocol</p>	<p>DALI output current $\leq 250\text{mA}$</p>	<p>1xETHERNET 10/100MBit RJ45</p>
	<p>MODBUSConfigurator free configuration software</p>	<p>DIN EN 50022 Snap-on for DIN-Rail or wall mounting</p>	<p>XT4 71.3x110x62mm</p>	<p>12-48V= Power supply</p>

MODBUSConfigurator

RESI: MODBUS Configurator V1.0.7.2 - [Unnamed]

Local COM port settings
 Modbus unit: 255 Device: COM4 Stopbits: 1 stopbit IP-Address:
 Baudrate: 57600 Parity: NONE Port:
 Download config Test connection Test

Device specific
 R5H-DALI-SIO DALI to MODBUS/RTU+ASCII converter for 64 DALI lamps
 Software version: 4.0.0 State: no error
 Initialize lamps Search lamps Query lamp states Reorder Lamps Edit Groups Initialize devices Query device states
 MODBUS Address: 255 Baudrate: 57600 Parity: NONE Stopbits: 1 stopbit

Test bench
 Test Bench DALI 1.0+2.0 Lamp status DALI Monitor Device status
 DALI single lamp Single lamp: 1 Pulse lamp:
 Select DALI short address of lamp in the range of 1 to 64 Function:
 Set brightness to 0 (0.0%)
 Set brightness to 128 (50.0%)
 Set brightness to 254 (100.0%)
 Set brightness to xx (yy/z%) 254
 DALI lamp group Lamp group: 1 Pulse lamp group:
 Select DALI lamp group in the range of 1 to 16 Execute command: 00.OFF
 DTR+: 254 Short address: 1 8 bit Value:
 DTR-: 254 8 bit answer:

Dali lamp settings

Read lamp settings Write lamp settings Switch MAX Switch MIN Switch OFF

Lamp name: Lamp 1 Groups:
 1 2 3 4 5 6 7 8
 9 10 11 12 13 14 15 16

Short address: 1 Device type: 8:Colour lampcontrol gear Set manual device type

Physical minimum: 1

Minimum: 1,0x01 -> 0.39% Maximum: 254,0xFE -> 100.00%
 Power up: 254,0xFE -> 100.00% Bus fault: 127,0x7F -> 50.00%
 Fade time: 10,0xA -> 16.0s Fade rate: 6,0x6 -> 63.3steps/s

Scene values:
 1: 255->MASK 5: 255->MASK 9: 255->MASK 13: 255->MASK
 2: 255->MASK 6: 255->MASK 10: 255->MASK 14: 255->MASK
 3: 255->MASK 7: 255->MASK 11: 255->MASK 15: 255->MASK
 4: 255->MASK 8: 255->MASK 12: 255->MASK 16: 255->MASK

Brightness: 127,0x007F Query brightness Set brightness
 Read all scenes(8 bit) Write all scenes(8 bit)
 Read all scenes(16 bit) Write all scenes(16 bit)

DT8 status Colour Scenes Init parameters

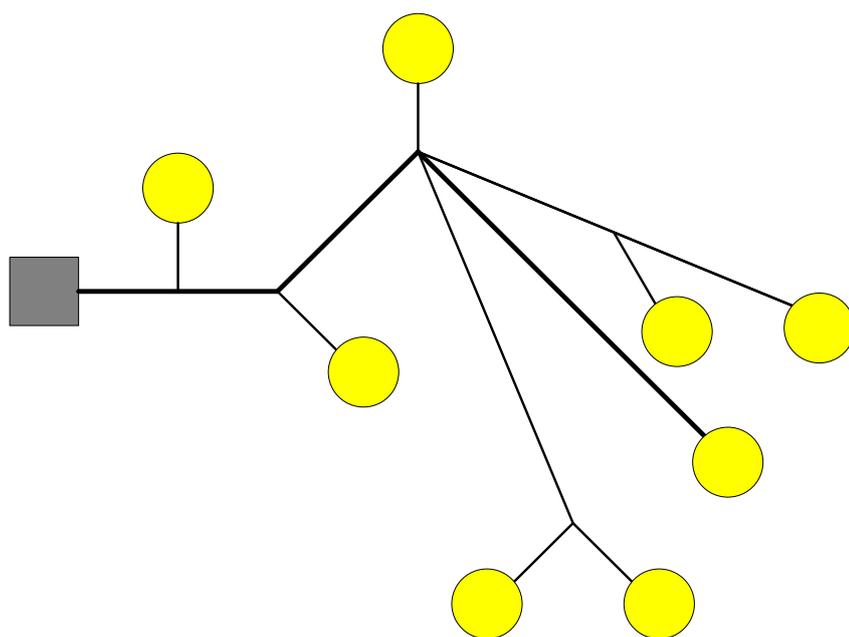
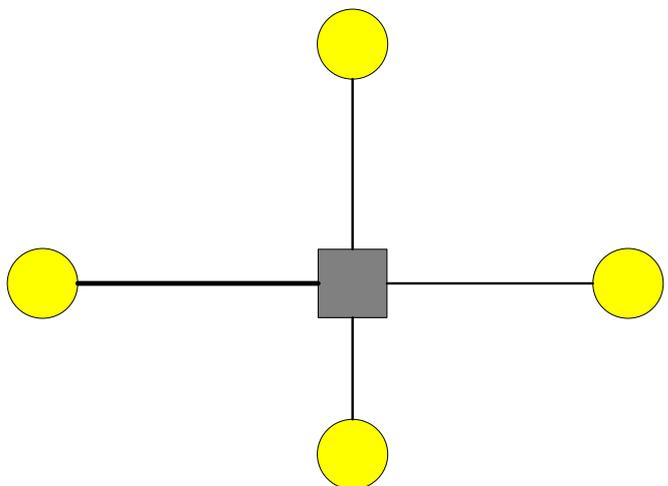
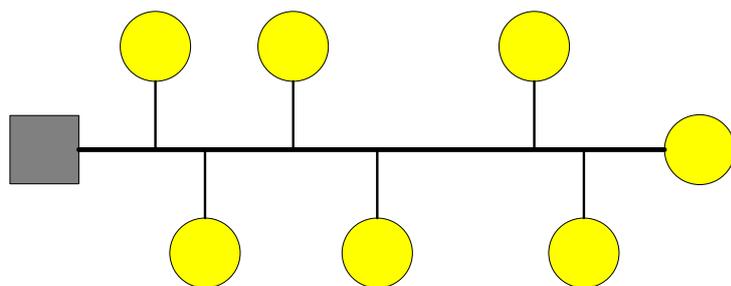
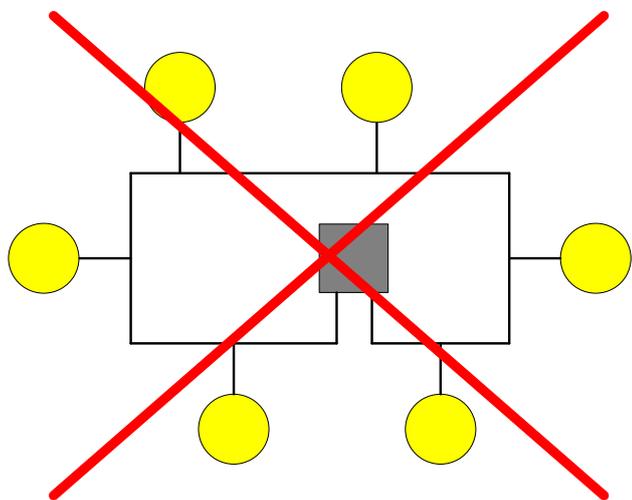
Read colours (8 bit mode)... Read colours (16 bit mode)...

x coordinate: ???? y coordinate: ???? Tc colour temperature: ????
 Primary N dimlevel 0-5: ????
 Channel 0 RED: 254,0xFE 185->72.8%
 Channel 1 GREEN: 254,0xFE 0->0.0%
 Channel 2 BLUE: 0,0x00 254->100.0%
 Channel 3 WHITE: 149,0x95 223->87.8%
 Channel 4 AMBER: ????
 Channel 5 FREECOLOUR: ????
 RGBWAF control: ????
 Colour type: 128,0x0080

Short addressing: Initialize & test DALI 1.0 ballasts
 Simple test: Test all DALI 1.0/2.0 devices
 Easy setup: auto search for DALI devices/lamps
 DALI monitor: Integrated monitor for tracing all commands
 FREE: Download for free from www.RESI.cc
 Windows based

DALI cable topology

The DALI allows any kind of cable topology like line, star or tree. Only a ring topology is forbidden! Maximum cable length is in total 300m depending on the following parameters: type of cable, communication speed, maximum number of connected DALI devices!



Q&A: DALI cabling

- DALI cabling topology
 - The DALI allows any kind of cable topology like line, star or tree. Only a ring topology is forbidden! Maximum cable length is in total 300m depending on the following parameters: type of cable, communication speed, maximum number of connected DALI devices!
- Maximum DALI cable length
 - The maximum cable length results from the maximum permitted voltage drop on the DALI cable; it is defined as a maximum of 2 V.
 - This corresponds to a maximum cable length of 300 m with a cable cross-section of 1.5 mm².
 - CAUTION: When designing the maximum cable length, the contact resistances must also be observed! 2 V voltage drop must not be exceeded!
- Do you have more than 64 DALI ballasts on a DALI line with a DALI power supply?
 - DALI only allows a maximum of 64 ballasts on a bus line!
 - Divide the DALI bus into two separate bus lines and use two DALI power supplies
- Is your bus system longer than 300m?
 - Separate the bus system into several separate segments with your own DALI power supplies and DALI master
- Measure the DALI output voltage on the DALI-MASTER. This must be around 14V!
 - Too many lights with ballasts on the DALI bus?
 - Do the ballasts use more power than the DALI power supply can deliver?
 - Usually the DALI power supplies deliver 200mA or 250mA of current
- Does the DALI voltage drop at the ballasts?
 - There may be a maximum voltage drop on the DALI bus of 2V between the DALI supply and the DALI ballast.
 - In the event of a large voltage drop, DALI communication no longer works reliably!
 - Measure this with EVERY ballast using a voltmeter!
 - First check whether all DALI devices are working.
 - Make sure that there is no communication on the DALI line.
 - Measure the voltage on the DALI power supply.
 - The value must be between 11.5 V and 22.5 V; a typical value is 14-16 V.
 - A significantly lower value could indicate a short circuit.
 - Measure the voltage on the DALI device that is furthest away from the DALI power supply.
 - The value must be between 9.5 V and 20.5 V.
 - A much lower value indicates that there is a short circuit somewhere.
 - Create a short circuit between the two DALI bus lines on the DALI device that is furthest away from the DALI power supply.
 - Measure the voltage on the DALI power supply. The value you measure is the DALI voltage drop.
 - This value must not be higher than 2 V.
 - If it is higher than 2 V, check whether the following events have occurred:
 - DALI line too long (over 300m with 1.5mm² cross-section)
 - Cross section too small
 - High contact resistance
 - The value must be brought below 2 V.
 - Remove the short circuit between the two DALI bus lines furthest away from the DALI device.
 - This can be solved by dividing the DALI bus system into two separate DALI bus systems
- Your DALI bus cabling must be a tree structure
 - There must be no ring or loop. If so, cut this loop open!
- Recommendations of DALI cable lengths for different conductor cross-sections: DALI cable length
 - at Ø 1.5mm² max. 300m
 - at Ø 1.0mm² max. 238m
 - at Ø 0.75mm² max. 174m
 - at Ø 0.5mm² max. 116m

DMX

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RESI

RESI-DMX-xxx

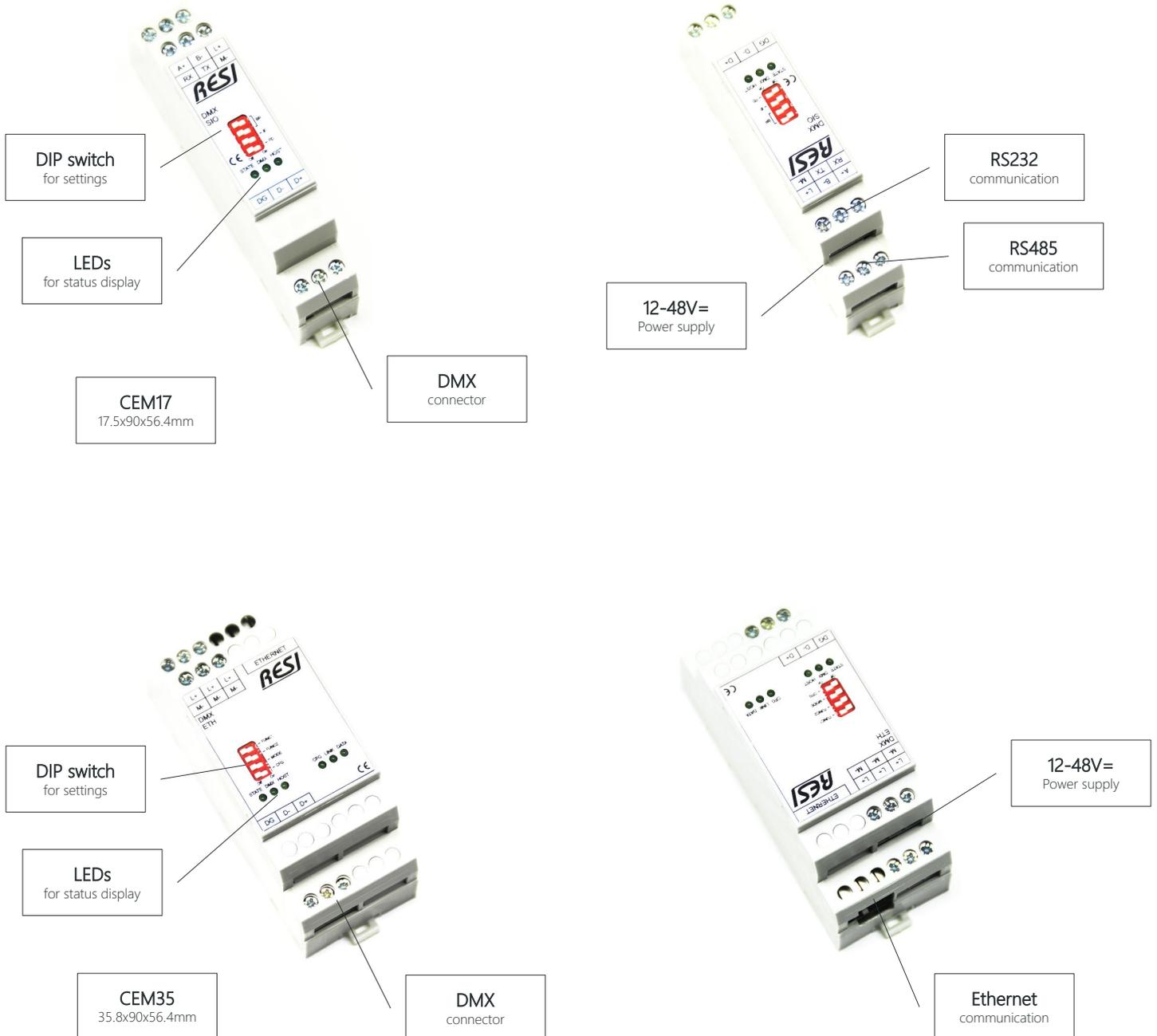
Our powerful master gateways between DMX light bus and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. DMX master communication with DMX lamps in one DMX universe. Configurable time between two DMX frames.



RESI-DMX-SIO	DMX Master	RS232 RS485	DMX512	30ms..60s configurable DMX frame repeat speed	512 DMX register	MODBUS/RTU Slave ASCII text protocol
RESI-DMX-ETH	DMX Master	ETHERNET	DMX512	30ms..60s configurable DMX frame repeat speed	512 DMX register	MODBUS/TCP Server ASCII text socket

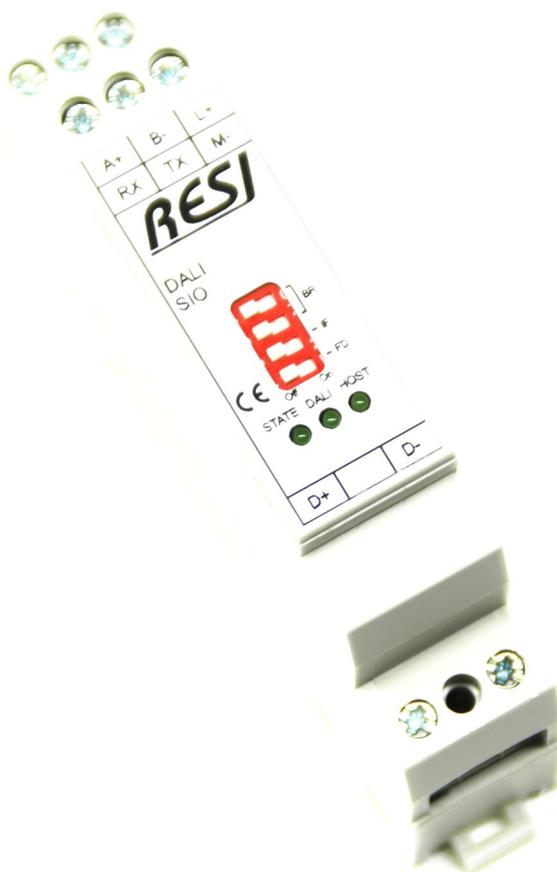
RESI-DMX-xxx

Our powerful master gateways between DMX light bus and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. DMX master communication with DMX lamps in one DMX universe. Configurable time between two DMX frames.



RESI-DMX-SIO

Our powerful master gateway between DMX light bus and host. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. DMX master communication with DMX lamps in one DMX universe. Adjustable time between two DMX frames. Configuration & test of DMX light system with our free software MODBUSConfigurator.



<p>HOST MODBUS/RTU MASTER ASCII TEXT</p> <p>RS232 RS485</p> <p>RESI</p> <p>DMX</p> <p>DMX LIGHT NETWORK</p> <p>■ ■ ■</p>	<p>DMX pause Adjustable DMX pause between 2 DMX frames</p>	<p>DMX frame Configurable DMX frame length</p>	<p>DMX Support of 512 DMX register</p>	<p>DMX512 unidirectional master protocol</p>
	<p>Functionality MODBUS to DMX master to control a DMX light system in one DMX universe with max. 512 DMX register. Unidirectional DMX master with adjustable DMX frame repeat time.</p>		<p>Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits</p>	<p>1xRS232 MODBUS/RTU slave ASCII text protocol</p> <p>1xRS485 MODBUS/RTU slave ASCII text protocol</p>
	<p>MODBUSConfigurator free configuration software</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM17 17.5x90x56.4mm</p>	<p>12-48V= Power supply</p>

RESI-DMX-ETH

Our powerful master gateway between DMX light bus and host. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. DMX master communication with DMX lamps in one DMX universe. Adjustable time between two DMX frames. Configuration & test of DMX light system with our free software MODBUSConfigurator.



	DMX pause Adjustable DMX pause between 2 DMX frames	DMX frame Configurable DMX frame length	DMX Support of 512 DMX register	DMX512 unidirectional master protocol
	Functionality MODBUS to DMX master to control a DMX light system in one DMX universe with max. 512 DMX register. Unidirectional DMX master with adjustable DMX frame repeat time.		Ethernet Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet or ASCII text protocol	1xETHERNET 10/100MBit RJ45
	MODBUSConfigurator free configuration software	DIN EN 50022 Snap-on for DIN-Rail	CEM35 35.8x90x56.4mm	IP settings DHCP or static IPV4 settings
				12-48V= Power supply

MODBUSConfigurator

RESI's MODBUS Configurator V1.10.7.6 - [Unnamed]

Local COM port settings

Modbus unit: 255 Device: COM1 Stopbits: 1 stopbit IP-Address:

Baudrate: 19200 Parity: NONE Port:

Device specific

RESI-DMX-SIO DMX512 to MODBUS/RTU+ASCII module for up to 512 DMX lamps

Software version:

State:

Start DMX Stog DMX Set DMX Length Write DMX registers Bead DMX registers

MODBUS

Address: 255 Baudrate: 57600 Parity: NONE Stopbits: 1 stopbit

Register	Value	Comment
4x00001	0x000A, 10	Current value of DMX Register 1
4x00002	0x00FF, 255	Current value of DMX Register 2
4x00003	0x001E, 30	Current value of DMX Register 3
4x00004	0x0000, 0	Current value of DMX Register 4
4x00005	0x0000, 0	Current value of DMX Register 5
4x00006	0x0000, 0	Current value of DMX Register 6
4x00007	0x0000, 0	Current value of DMX Register 7
4x00008	0x0000, 0	Current value of DMX Register 8
4x00009	0x0000, 0	Current value of DMX Register 9
4x00010	0x0000, 0	Current value of DMX Register 10
4x00011	0x0000, 0	Current value of DMX Register 11
4x00012	0x0000, 0	Current value of DMX Register 12
4x00013	0x0000, 0	Current value of DMX Register 13
4x00014	0x0000, 0	Current value of DMX Register 14
4x00015	0x0000, 0	Current value of DMX Register 15
4x00016	0x0000, 0	Current value of DMX Register 16
4x00017	0x0000, 0	Current value of DMX Register 17
4x00018	0x0000, 0	Current value of DMX Register 18
4x00019	0x0000, 0	Current value of DMX Register 19
4x00020	0x0000, 0	Current value of DMX Register 20
4x00021	0x0000, 0	Current value of DMX Register 21
4x00022	0x0000, 0	Current value of DMX Register 22
4x00023	0x0000, 0	Current value of DMX Register 23
4x00024	0x0000, 0	Current value of DMX Register 24
4x00025	0x0000, 0	Current value of DMX Register 25
4x00026	0x0000, 0	Current value of DMX Register 26
4x00027	0x0000, 0	Current value of DMX Register 27
4x00028	0x0000, 0	Current value of DMX Register 28
4x00029	0x0000, 0	Current value of DMX Register 29
4x00030	0x0000, 0	Current value of DMX Register 30
4x00031	0x0000, 0	Current value of DMX Register 31
4x00032	0x0000, 0	Current value of DMX Register 32
4x00033	0x0000, 0	Current value of DMX Register 33
4x00034	0x0000, 0	Current value of DMX Register 34

Print project report

Simple test
Test DMX registers
and lamps

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Windows
based

LED STRIPES

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RESI

RESI-xLED-xxx

Our powerful master gateways for LED stripes are designed to connect the LED stripe directly to the gateway. The gateways are made for constant voltage LED stripes with common anode. The brightness control for every channel is done via PWM output. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Configuration & test of LED stripe system with our free software MODBUSConfigurator.



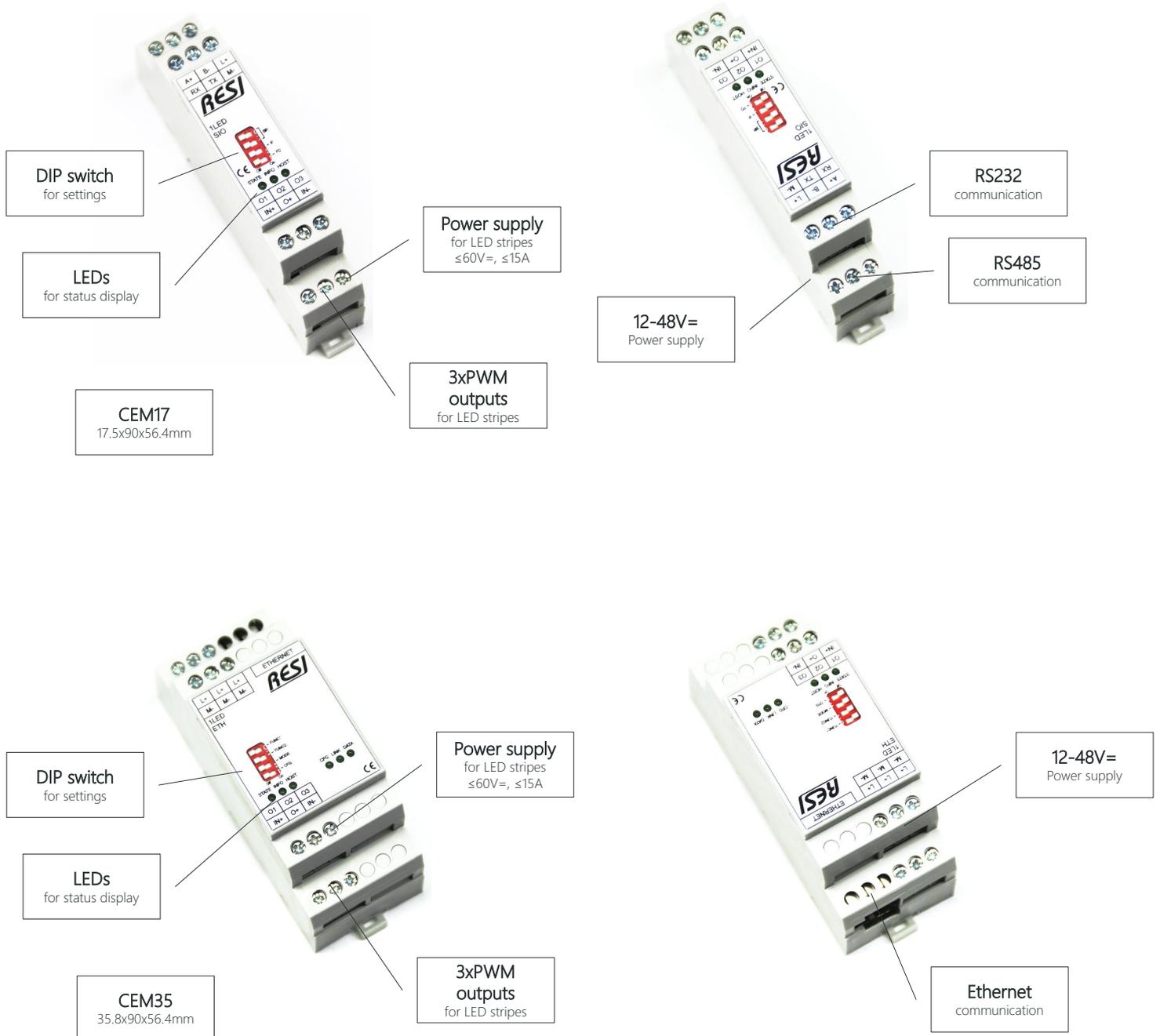
RESI-1LED-SIO	LED STRIPE Master	RS232 RS485	LED STRIPEs constant voltage common anode	LED STRIPE types RGB, dual white mono colour	3xPWM $\leq 60V =, \leq 5A/\text{channel}$	MODBUS/RTU Slave ASCII text protocol
RESI-1LED-ETH	LED STRIPE Master	ETHERNET	LED STRIPEs constant voltage common anode	LED STRIPE types RGB, dual white mono colour	3xPWM $\leq 60V =, \leq 5A/\text{channel}$	MODBUS/TCP Server ASCII text socket
RESI-4LED-SIO	LED STRIPE Master	RS485	LED STRIPEs constant voltage common anode	LED STRIPE types RGB, dual white mono colour	12xPWM $\leq 60V =, \leq 5A/\text{channel}$	MODBUS/RTU Slave ASCII text protocol
RESI-4LED-ETH	LED STRIPE Master	ETHERNET	LED STRIPEs constant voltage common anode	LED STRIPE types RGB, dual white mono colour	12xPWM $\leq 60V =, \leq 5A/\text{channel}$	MODBUS/TCP Server ASCII text socket



RESI-2LEDWS-SIO	WS28xx LED STRIPE Master	RS232 RS485	WS28xx LEDs each LED individually addressable	LED types WS2812 +5V WS2815 +12V	2 independent channels max 512 LEDs/channel	MODBUS/RTU Slave ASCII text protocol
RESI-2LEDWS-ETH	WS28xx LED STRIPE Master	ETHERNET	WS28xx LEDs each LED individually addressable	LED types WS2812 +5V WS2815 +12V	2 independent channels max 512 LEDs/channel	MODBUS/TCP Server ASCII text socket
RESI-2LEDWS-USB	WS28xx LED STRIPE Master	USB 1.1 USB 2.0	WS28xx LEDs each LED individually addressable	LED types WS2812 +5V WS2815 +12V	2 independent channels max 512 LEDs/channel	MODBUS/RTU Slave ASCII text protocol

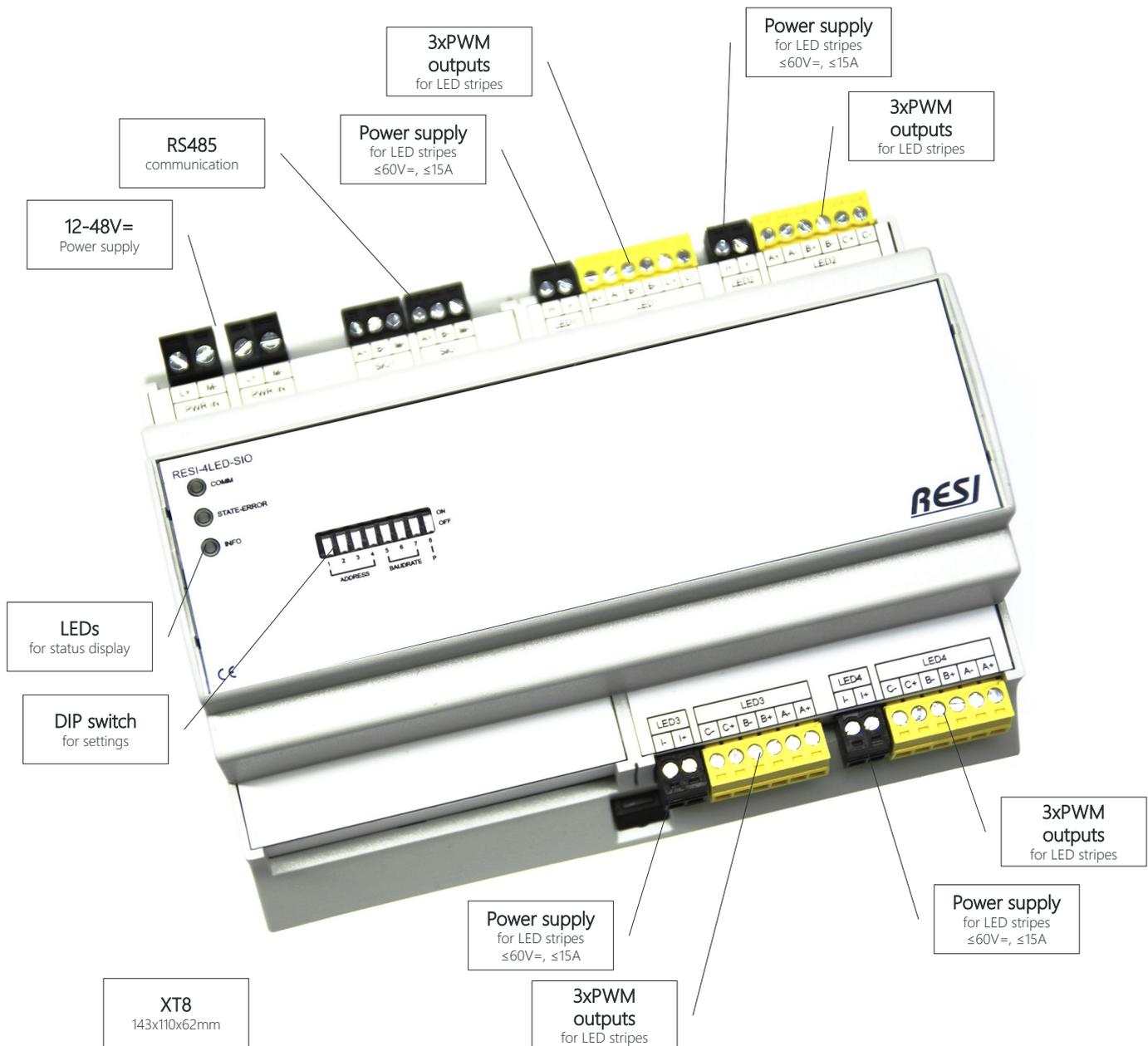
RESI-xLED-xxx

Our powerful master gateways for LED stripes are designed to connect the LED stripe directly to the gateway. The gateways are made for constant voltage LED stripes with common anode. The brightness control for every channel is done via PWM output. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Configuration & test of LED stripe system with our free software MODBUSConfigurator.



RESI-xLED-xxx

Our powerful master gateways for LED stripes are designed to connect the LED stripe directly to the gateway. The gateways are made for constant voltage LED stripes with common anode. The brightness control for every channel is done via PWM output. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Configuration & test of LED stripe system with our free software MODBUSConfigurator.



RESI-1LED-SIO

Our powerful master gateway for LED stripes is designed to connect LED stripes directly to the gateway. The gateway is made for constant voltage LED stripes with common anode. The brightness control for every channel is done via PWM output. Host protocols: MODBUS/RTU or ASCII text. Host connection via RS232 or RS485 interface. Configuration & test of LED stripe system with our free software MODBUSConfigurator.



	LED stripe gateway	LED stripe type constant voltage common anode	3xPWM outputs ≤60V=, ≤5A/channel	Power supply for LEDs ≤60V=, ≤15A
	Functionality MODBUS master for LED stripes. Individual control of three PWM channels. LED stripe types: RGB, dual or mono colour External power supply for LED stripes: ≤60V=, ≤5A/channel, usually 12V= or 24V=	Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS232 MODBUS/RTU slave ASCII text protocol	1xRS485 MODBUS/RTU slave ASCII text protocol
MODBUSConfigurator free configuration software	DIN EN 50022 Snap-on for DIN-Rail	CEM17 17.5x90x56.4mm	12-48V= Power supply	

RESI-1LED-ETH

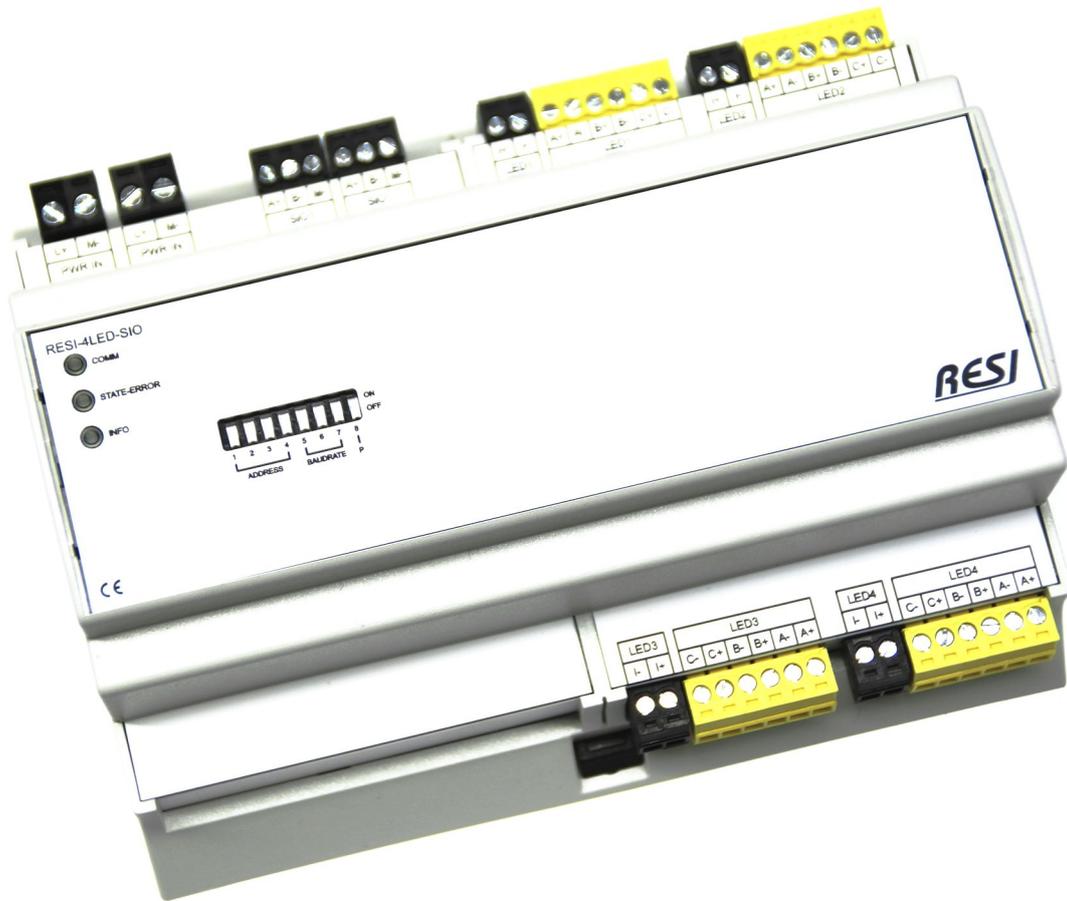
Our powerful master gateway for LED stripes is designed to connect LED stripes directly to the gateway. The gateway is made for constant voltage LED stripes with common anode. The brightness control for every channel is done via PWM output. Host protocols: MODBUS/TCP or ASCII text socket. Host connection via Ethernet interface. Configuration & test of LED stripe system with our free software MODBUSConfigurator.



	LED stripe gateway	LED stripe type constant voltage common anode	3xPWM outputs ≤60V=, ≤5A/channel	Power supply for LEDs ≤60V=, ≤15A
	Functionality MODBUS master for LED stripes. Individual control of three PWM channels. LED stripe types: RGB, dual or mono colour External power supply for LED stripes: ≤60V=, ≤5A/channel, usually 12V= or 24V=	Ethernet Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet or ASCII text protocol	1xEtherNET 10/100MBit RJ45	IP settings DHCP or static IPV4 settings
MODBUSConfigurator free configuration software	DIN EN 50022 Snap-on for DIN-Rail	CEM35 35.8x90x56.4mm	12-48V= Power supply	

RESI-4LED-SIO

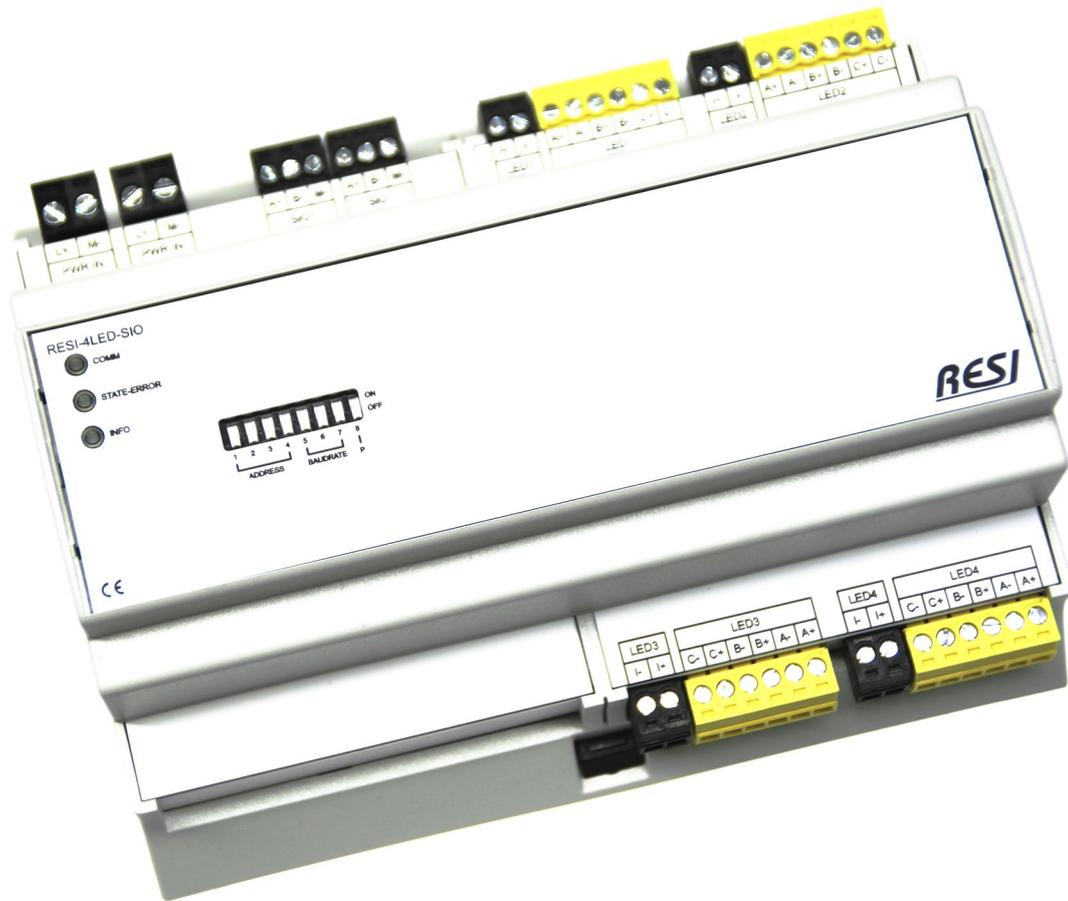
Our powerful master gateway for LED stripes is designed to connect LED stripes directly to the gateway. The gateway is made for constant voltage LED stripes with common anode. The brightness control for every channel is done via PWM output. Host protocols: MODBUS/RTU or ASCII text. Host connection via RS485 interface. Configuration & test of LED stripe system with our free software MODBUSConfigurator.



	LED stripe gateway	LED stripe type constant voltage common anode	12xPWM outputs ≤60V=, ≤5A/channel	4xpower supply for LEDs ≤60V=, ≤15A	
	Functionality MODBUS master for LED stripes. Individual control of twelve PWM channels. LED stripe types: RGB, dual or mono colour External power supply for 4 LED stripe groups: ≤60V=, ≤5A/channel, usually 12V= or 24V=	Serial Interface RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS485 MODBUS/RTU slave ASCII text protocol	XT8 143x110x62mm	
	MODBUSConfigurator free configuration software	DIN EN 50022 Snap-on for DIN-Rail	WALL MOUNTING option	12-48V= Power supply	

RESI-4LED-ETH

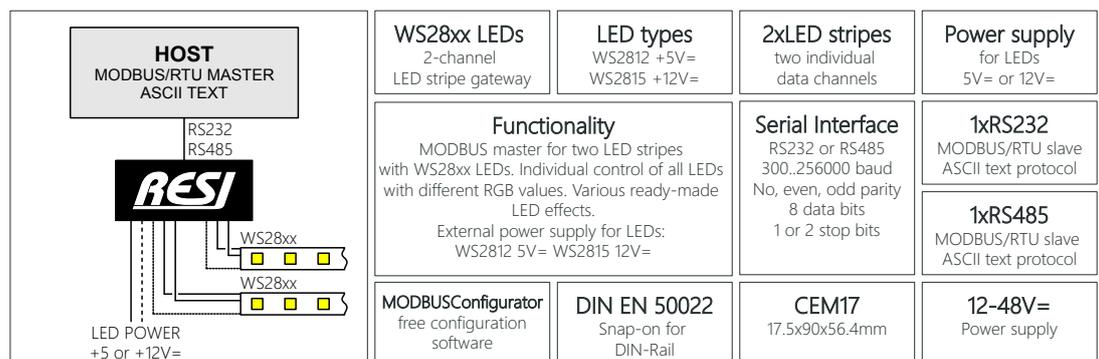
Our powerful master gateway for LED stripes is designed to connect LED stripes directly to the gateway. The gateway is made for constant voltage LED stripes with common anode. The brightness control for every channel is done via PWM output. Host protocols: MODBUS/TCP or ASCII text. Host connection via Ethernet interface. Configuration & test of LED stripe system with our free software MODBUSConfigurator.



	LED stripe gateway	LED stripe type constant voltage common anode	12xPWM outputs ≤60V=, ≤5A/channel	4xpower supply for LEDs ≤60V=, ≤15A
	Functionality MODBUS master for LED stripes. Individual control of twelve PWM channels. LED stripe types: RGB, dual or mono colour External power supply for 4 LED stripe groups: ≤60V=, ≤5A/channel, usually 12V= or 24V=	Ethernet Web Server for IPV4/DHCP setup MODBUS/TCP or MODBUS/RTU via Ethernet or ASCII text protocol	1xETHERNET 10/100MBit RJ45	XT8 143x110x62mm
12-48V= Power supply	DIN EN 50022 Snap-on for DIN-Rail	WALL MOUNTING option		

RESI-2LEDWS-SIO

Our powerful master gateway for LED stripes based on the addressable WS28xx LEDs is designed to connect two LED stripes with max. 512 LEDs per stripe directly to the gateway. External power supply for the LED stripes necessary: WS2812 or WS2812B +5Vdc or WS2815 +12Vdc. Every LED on the stripes can be addressed with individual RGB values. Various effects available. Host protocols: MODBUS/RTU or ASCII text. Host connection via RS232 or RS485 interface. Configuration & test of LED stripe system with our free software MODBUSConfigurator.



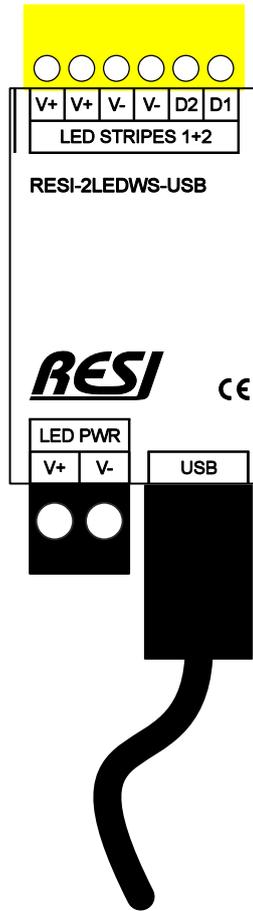
RESI-2LEDWS-ETH

Our powerful master gateway for LED stripes based on the addressable WS28xx LEDs is designed to connect two LED stripes with max. 512 LEDs per stripe directly to the gateway. External power supply for the LED stripes necessary: WS2812 or WS2812B +5Vdc or WS2815 +12Vdc. Every LED on the stripes can be addressed with individual RGB values. Various effects available. Host protocols: MODBUS/TCP or ASCII text socket. Host connection via Ethernet interface. Configuration & test of LED stripe system with our free software MODBUSConfigurator.



RESI-2LEDWS-USB

Our powerful master gateway for LED stripes based on the addressable WS28xx LEDs is designed to connect two LED stripes with max. 512 LEDs per stripe directly to the gateway. External power supply for the LED stripes necessary: WS2812 or WS2812B +5Vdc or WS2815 +12Vdc. Every LED on the stripes can be addressed with individual RGB values. Various effects available. Host protocols: MODBUS/RTU or ASCII text. Host connection via virtual serial interface based on USB 1.1 or USB 2.0. Configuration & test of LED stripe system with our free software MODBUSConfigurator.



MODBUSConfigurator

RESI's MODBUS Configurator V1.10.7.6 - [Unnamed]

Local COM port settings

Modbus unit: 255 Device: COM1 Stopbits: 1 stopbit IP-Address:

Baudrate: 19200 Parity: NONE Port:

Device specific

Download config Test connection Tgst

RESI-1LED-SIO 1LED to MODBUS/RTU+ASCII module with 3 PWM LED channels

Software version:

State:

Choose gemo Set LED mode Set channel O1 Set channel O2 Set channel O3 Set fade speed Set minimum time Set minimum time

MODBUS

Address: 255 Baudrate: 57600 Parity: NONE Stopbits: 1 stopbit

Register	Value	Comment
4x00001	0x?????	Current value for LED channel O1 (0..4095=0..100%)
4x00002	0x?????	Current value for LED channel O2 (0..4095=0..100%)
4x00003	0x?????	Current value for LED channel O3 (0..4095=0..100%)
4x00004	0x?????	Current mode (0=OFF,1=ON,2=FLASH,3=FADE,4=RANDOM,5=SEQUENCE)
4x00005	0x?????	Current fade speed for FADE,RANDOM in steps per 1/100s
4x00006	0x?????	Current minimum time (FLASH,SEQUENCE:in 1/10s, RANDOM:in s)
4x00007	0x?????	Current maximum time (FLASH,SEQUENCE:in 1/10s, RANDOM:in s)
4x00008	0x?????	Actual output value for O1 (0..4095=0..100%)
4x00009	0x?????	Actual output value for O2 (0..4095=0..100%)
4x00010	0x?????	Actual output value for O3 (0..4095=0..100%)
4x00011	0x?????	Actual random output value for O1 (0..4095=0..100%)
4x00012	0x?????	Actual random output value for O2 (0..4095=0..100%)
4x00013	0x?????	Actual random output value for O3 (0..4095=0..100%)
4x00014	0x?????	Is fading active (0=NO, 1=YES)

Simple test
Test LED stripes directly

FREE
Download for free
from www.RESI.cc

Windows based

activate the testing mode

KNIX

it's all about perfection

RESI

RESI-KNX-xxx

Our powerful master gateway between KNX bus and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Host communication via RS232/RS485 serial interface or via Ethernet. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free software MODBUSConfigurator. Additionally we offer a very slim KNX power supply.



RESI-KNX-SIO	KNX Master	RS232 RS485	NO integrated KNX power supply	KNX	65.536 KNX group addresses	MODBUS/RTU Slave ASCII text protocol
RESI-KNX-ETH	KNX Master	ETHERNET	NO integrated KNX power supply	KNX	65.536 KNX group addresses	MODBUS/TCP Server ASCII text socket
RESI-KNX-PS	KNX Power supply	12-48V= Power supply	KNX output current ≤160mA			



RESI-KNX-GW	KNX ASCII Gateway	RS232 RS485	NO integrated KNX power supply	KNX	65.536 KNX group addresses	Simple ASCII text protocol
RESI-KNXGW-ETH	KNX ASCII Gateway	ETHERNET	NO integrated KNX power supply	KNX	65.536 KNX group addresses	Simple ASCII text protocol

RESI-KNX-xxx

Our powerful MODBUS/RTU master gateway to exchange data between MODBUS/RTU slave devices and KNX bus devices. Bidirectional communication with MODBUS/RTU devices via RS232 or RS485 serial interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free software MODBUSConfigurator. Additionally we offer KNX master gateways with an integrated, switchable KNX power supply.



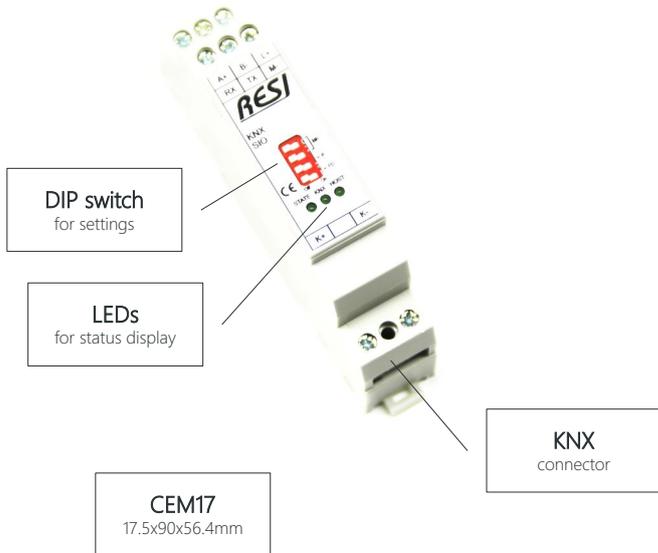
RESI-KNX-MBMASTER	KNX MODBUS/RTU Master	RS232 RS485	NO integrated KNX power supply	KNX	65.536 KNX group addresses	MODBUS/RTU Master protocol
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RESI-KNX+PS-SIO	KNX Master with integrated KNX power supply	RS485	Switchable KNX power supply ≤160mA	KNX	65.536 KNX group addresses	MODBUS/RTU Slave ASCII text protocol
RESI-KNX+PS-ETH	KNX Master with integrated KNX power supply	ETHERNET	Switchable KNX power supply ≤160mA	KNX	65.536 KNX group addresses	MODBUS/TCP Server ASCII text socket

RESI-KNX-xxx

Our powerful master gateway between KNX bus and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Host communication via RS232/RS485 serial interface or via Ethernet. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free software MODBUSConfigurator. Additionally we offer a very slim KNX power supply.



RESI-KNX-SIO

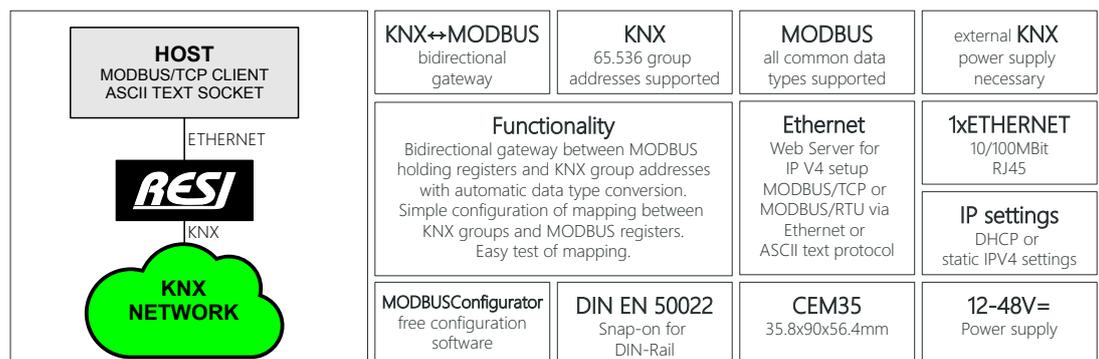
Our powerful master gateway between KNX bus and host. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free software MODBUSConfigurator.



<p>HOST MODBUS/RTU MASTER ASCII TEXT</p> <p>RS232 RS485</p> <p>RESI</p> <p>KNX</p> <p>KNX NETWORK</p>	<p>KNX↔MODBUS bidirectional gateway</p>	<p>KNX 65.536 group addresses supported</p>	<p>MODBUS all common data types supported</p>	<p>external KNX power supply necessary</p>
	<p>Functionality Bidirectional gateway between MODBUS holding registers and KNX group addresses with automatic data type conversion. Simple configuration of mapping between KNX groups and MODBUS registers. Easy test of mapping.</p>	<p>Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits</p>	<p>1xRS232 MODBUS/RTU slave ASCII text protocol</p>	<p>1xRS485 MODBUS/RTU slave ASCII text protocol</p>
<p>MODBUSConfigurator free configuration software</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM17 17.5x90x56.4mm</p>	<p>12-48V= Power supply</p>	

RESI-KNX-ETH

Our powerful master gateway between KNX bus and host. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free software MODBUSConfigurator.



RESI-KNX-PS

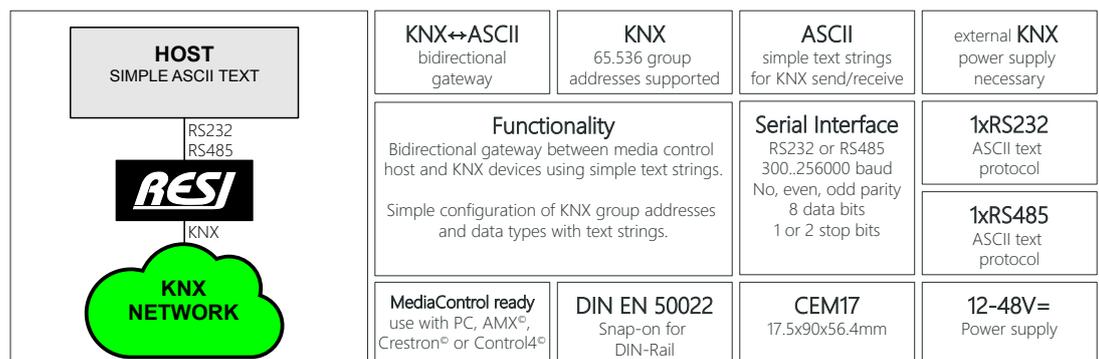
Our ultra slim KNX power supply with 160mA maximum output current on the KNX bus for all KNX devices. Primary power supply with 12-48Vdc.



 POWER for KNX 		KNX output current ≤160mA
	OVERLOAD protection with ERR LED	Functionality Power supply for KNX network
	KNX TRAFFIC LED	CEM17 17.5x90x56.4mm
	DIN EN 50022 Snap-on for DIN-Rail	12-48V= Power supply

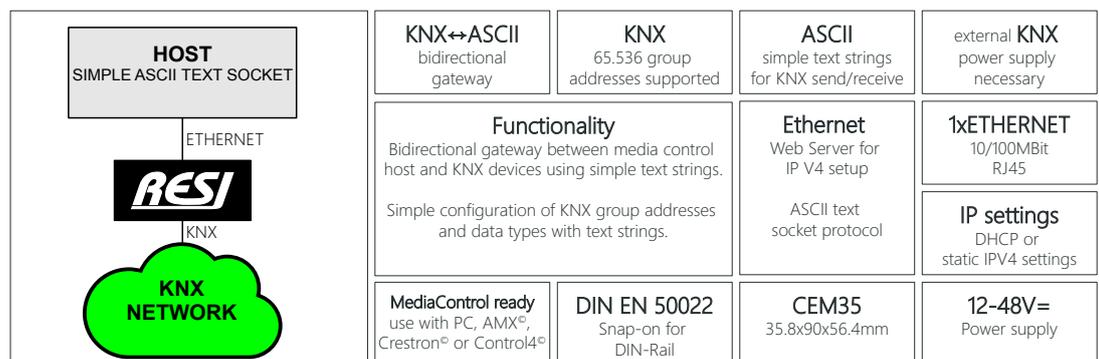
RESI-KNX-GW

Our powerful master gateway between KNX bus and media control host like PC, AMX®, Crestron® or Control4®. Host protocols: Simple ASCII text strings. Host communication via RS232 or RS485 serial interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Configuration of KNX group addresses and KNX data types with simple ASCII text strings.



RESI-KNXGW-ETH

Our powerful master gateway between KNX bus and media control host like PC, AMX®, Crestron® or Control4®. Host protocols: Simple ASCII text strings via TCP/IP socket. Host communication via Ethernet interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Configuration of KNX group addresses and KNX data types with simple ASCII text strings.



RESI-KNX-MBMASTER

Our powerful MODBUS/RTU master gateway to exchange data between MODBUS/RTU slave devices and KNX bus devices. Bidirectional communication with MODBUS/RTU devices via RS232 or RS485 serial interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free software MODBUSConfigurator.



<p>MODBUS/RTU slave devices</p> <p>MODBUS/RTU MASTER</p> <p>RESI</p> <p>KNX NETWORK</p>	KNX↔MODBUS/RTU MASTER gateway	KNX 65.536 group addresses supported	MODBUS/RTU MASTER for send/receive	external KNX power supply necessary
	Functionality Bidirectional gateway between MODBUS/RTU slave devices and KNX devices. Simple configuration of MODBUS master requests and KNX mapping of requested MODBUS slave data.	Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS232 MODBUS/RTU slave ASCII text protocol	1xRS485 MODBUS/RTU slave ASCII text protocol
	Stand-alone gateway between KNX and MODBUS devices	DIN EN 50022 Snap-on for DIN-Rail	CEM17 17.5x90x56.4mm	12-48V= Power supply

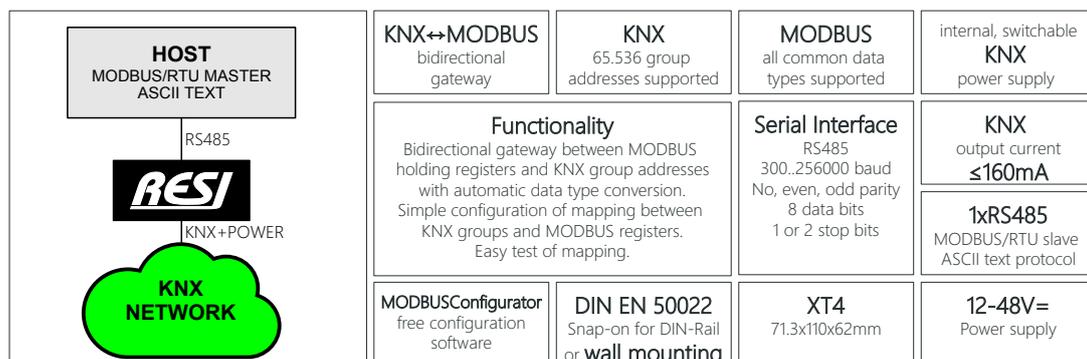
RESI-KNX+PS-xxx

Our powerful master gateway between KNX bus and host with integrated, switchable KNX power supply. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Host communication via RS232/RS485 serial interface or Ethernet. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free software MODBUSConfigurator.



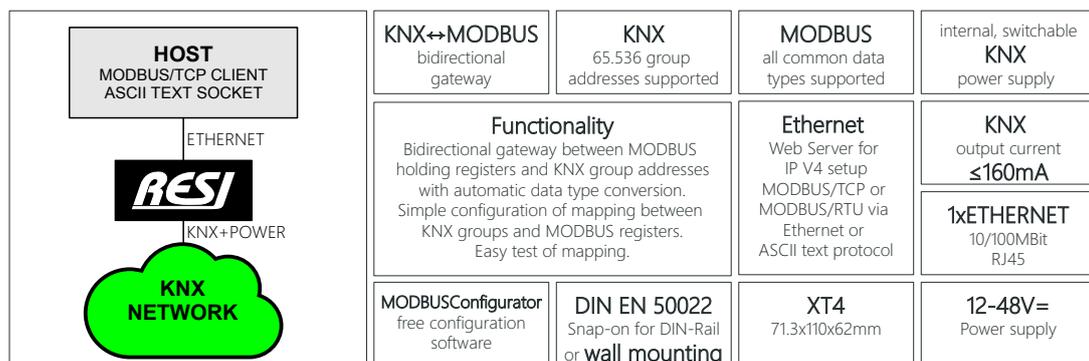
RESI-KNX+PS-SIO

Our powerful master gateway between KNX bus and host with integrated, switchable KNX power supply. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free software MODBUSConfigurator.



RESI-KNX+PS-ETH

Our powerful master gateway between KNX bus and host with integrated, switchable KNX power supply. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free software MODBUSConfigurator.



MODBUSConfigurator

RESI's MODBUS Configurator V1.10.7.2 - [C:\MBCConfigurator 2020\KNX Sample Temperature2.mcp]

Local COM port settings
 Modbus unit: 255 Device: COM4 Stopbits: 1 stopbit IP-Address:
 Baudrate: 57600 Parity: NONE Port:

Device specific
 Download config Test connection Test
 RESH-KNX-SIO KNX to MODBUS/RTU+ASCII module
 Software version: ??? State: ???
 Upload config
 MODBUS Address: 255 Baudrate: 57600 Parity: NONE Stopbits: 1 stopbit KNX Address: 15.15.255
 MODBUS/RTU Register: 1 Datatype: FLOAT32 Interval: 0 Factor: 1
 KNX Group: 3.5.10 Datatype: FLOAT16 Direction: READ Comment: Actual temperature

MODBUS register	MODBUS datatype	MODBUS interval	KNX group	KNX datatype	KNX direction	Factor	Value
4x1	FLOAT32	0	3.5.10	FLOAT16	READ	1	????
4x3	FLOAT32	0	3.5.11	FLOAT16	READ-WRITE	1	????
4x5	UINT16	0	1.4.128	BIT	READ-WRITE	1	????

Project manager
 HELIOTHERM KNX MODBUS MASTER
 HELIOTHERM V138 - RESI KNX MASTER

Local COM port settings
 Modbus unit: 255 Device: COM4 IP-Address:
 Baudrate: 9600 Parity: NONE Port:

Device specific
 Download config Test connection Test
 HELIOTHERM V138 KNX to MODBUS/RTU MASTER module
 Software version: ??? State: ???
 Upload config
 Modbus address: 255 Modbus parity: NONE KNX address: 15.15.255 HELP

KNX MB/RTU MASTER Test Bench

KNX group	KNX datatype	KNX direction	KNX delta	KNX interval	Unit ID	MODBUS register	MODBUS datatype	Factor	Comment
18.5.10	SINT16	WRITE	1	60	1	18	SINT16	1	Temp. Aussen
18.5.11	SINT16	WRITE	1	60	1	19	SINT16	1	Temp. Beschleisser
18.5.12	SINT16	WRITE	1	60	1	20	SINT16	1	Temp. Vorlauf
18.5.13	SINT16	WRITE	1	60	1	21	SINT16	1	Temp. Rucklauf
18.5.14	SINT16	WRITE	1	60	1	22	SINT16	1	Temp. Pufferspeicher
18.5.15	SINT16	WRITE	1	60	1	23	SINT16	1	Temp. EQ_Ausstritt
18.5.16	SINT16	WRITE	1	60	1	24	SINT16	1	Temp. EQ_Austritt
18.5.17	SINT16	WRITE	1	60	1	25	SINT16	1	Temp. Sauggas
18.5.18	SINT16	WRITE	1	60	1	26	SINT16	1	Temp. Verdampfung
18.5.19	SINT16	WRITE	1	60	1	27	SINT16	1	Temp. Kondensation
18.5.20	SINT16	WRITE	1	60	1	28	SINT16	1	Temp. Heissgas
18.5.21	SINT16	WRITE	1	30	1	29	SINT16	1	Niederdruck (bar)
18.5.22	SINT16	WRITE	1	30	1	30	SINT16	1	Hochdruck (bar)
18.5.23	SINT16	WRITE	1	45	1	31	SINT16	1	Heckschlepppumpe
18.5.24	SINT16	WRITE	1	45	1	32	SINT16	1	Pufferledpumpe
18.5.25	SINT16	WRITE	1	45	1	33	SINT16	1	Verdichter
18.5.26	SINT16	WRITE	1	45	1	34	SINT16	1	Steuerung
18.5.27	SINT16	WRITE	1	45	1	35	SINT16	1	Vierwegeventil Luft
18.5.28	SINT16	WRITE	1	100	1	36	SINT16	1	WM2_Durchfluss
18.5.29	SINT16	WRITE	1	45	1	37	SINT16	1	n-Stell Verdichter(T%)
18.5.30	SINT16	WRITE	1	60	1	38	SINT16	1	COP

MS/RTU ID Trigger Command Start Length Timeout Repeats Pause Comment

1	Every 1s	3 Read Multiple Holding Registers	18	32	1000	1	0	Werte lesen Teil 1
1	Every 1s	3 Read Multiple Holding Registers	60	16	1000	1	10	Werte lesen Teil 2
1	On KNX value received	6 Write Single Holding Register	100	35	1000	1	10	Werte schreiben

Simple test
 Test read-out & display of KNX data

Easy config
 Simple list configuration

FREE
 Download for free from www.RESI.cc

Windows based

ENOCEAN

it's all about perfection _____

RESI

RESI-ENO-xxx

Our powerful master gateways between ENOCEAN sensors and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Special versions with ENOCEAN ESP3 protocol. Read-out of ENOCEAN sensors. Support of all ENOCEAN frames. Additional Antennas for better radio signal.



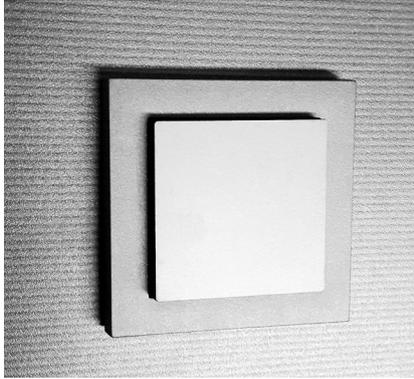
RESI-ENO-SIO	ENOCEAN Gateway	RS232 RS485	ENOCEAN	EU 868MHz	MODBUS/RTU Slave ASCII text protocol
RESI-ENO-ETH	ENOCEAN Gateway	ETHERNET	ENOCEAN	EU 868MHz	MODBUS/TCP Server ASCII text socket
RESI-ENOCEAN-ANT	ENOCEAN Antenna	116mm rotation 360°, tilt 90° SMA	ENOCEAN	EU 868MHz	
RESI-ENOCEAN-ANT2	ENOCEAN Antenna with magnetic base	295mm cable 4m, magnetic base Ø 50mm, SMA	ENOCEAN	EU 868MHz	



RESI-ENO-GW	ENOCEAN Gateway	RS232 RS485	ENOCEAN	EU 868MHz	ESP3® protocol
RESI-ENOGW-ETH	ENOCEAN Gateway	ETHERNET	ENOCEAN	EU 868MHz	ESP3® protocol

RESI-ENO-xxx

Our powerful master gateways between ENOCEAN sensors and host systems. Host protocols: MODBUS/RTU, MODBUS/TCP, ASCII text or KNX. Special versions with ENOCEAN ESP3 protocol. Read-out of ENOCEAN sensors. Support of all ENOCEAN frames. Additional Antennas for better radio signal.



RESI-RG-ENO2-K

ENOCEAN
Gateway

KNX

ENOCEAN

EU
868MHz

KNX
protocol

RESI-ENO-xxx

Our powerful master gateways between ENOCEAN sensors and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Special versions with ENOCEAN ESP3 protocol. Read-out of ENOCEAN sensors. Support of all ENOCEAN frames. Additional Antennas for better radio signal.



RESI-ENO-SIO

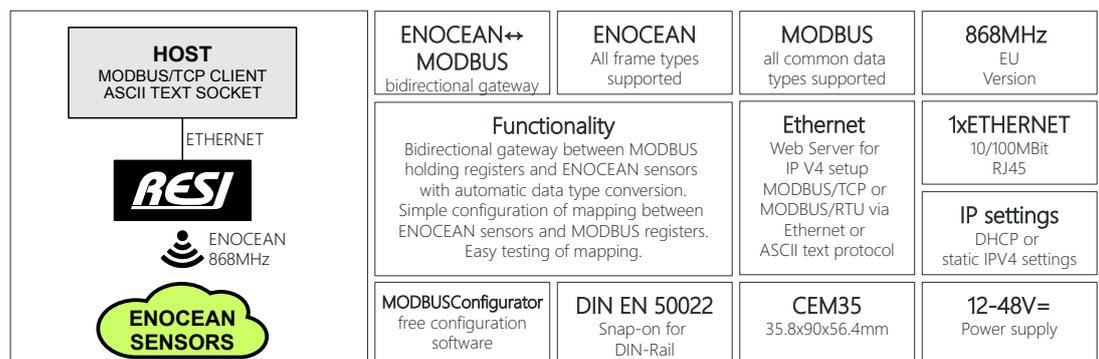
Our powerful master gateway between ENOCEAN sensors and host. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Bidirectional communication with ENOCEAN devices. Support of all ENOCEAN protocol types. ENOCEAN Antenna connector: SMA, Mapping & testing between ENOCEAN sensors and MODBUS registers with our free software MODBUSConfigurator.



<p>HOST MODBUS/RTU MASTER ASCII TEXT</p> <p>RS232 RS485</p>  <p>ENOCEAN 868MHz</p> 	<p>ENOCEAN↔ MODBUS bidirectional gateway</p>	<p>ENOCEAN All frame types supported</p>	<p>MODBUS all common data types supported</p>	<p>868MHz EU Version</p>
	<p>Functionality Bidirectional gateway between MODBUS holding registers and ENOCEAN sensors with automatic data type conversion. Simple configuration of mapping between ENOCEAN sensors and MODBUS registers. Easy testing of mapping.</p>		<p>Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits</p>	<p>1xRS232 MODBUS/RTU slave ASCII text protocol</p>
	<p>MODBUSConfigurator free configuration software</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM17 17.5x90x56.4mm</p>	<p>1xRS485 MODBUS/RTU slave ASCII text protocol</p>
			<p>12-48V= Power supply</p>	

RESI-ENO-ETH

Our powerful master gateway between ENOCEAN sensors and host. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Bidirectional communication with ENOCEAN devices. Support of all ENOCEAN protocol types. ENOCEAN Antenna connector: SMA, Mapping & testing between ENOCEAN sensors and MODBUS registers with our free software MODBUSConfigurator.



RESI-ENO-GW

Our powerful master gateway between ENOCEAN sensors and host. Host protocol is ENOCEAN ESP3 protocol. Host communication via RS232 or RS485 serial interface. Bidirectional communication with ENOCEAN devices. ENOCEAN Antenna connector: SMA



<p>HOST ENOCEAN ESP3 PROTOCOL</p> <p>RS232 RS485</p>  <p>ENOCEAN 868MHz</p> 	<p>ENOCEAN↔ ESP[®]3 bidirectional gateway</p>	<p>ENOCEAN All frame types supported</p>	<p>ESP[®]3 host protocol</p>	<p>868MHz EU Version</p>
	<p>Functionality Bidirectional gateway between host and ENOCEAN devices. Host protocol is ENOCEAN ESP3 protocol.</p>		<p>Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits</p>	<p>1xRS232 ESP3 protocol</p>
	<p>Own software use your own software for ENOCEAN sensors</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM17 17.5x90x56.4mm</p>	<p>1xRS485 ESP3 protocol</p>
				<p>12-48V= Power supply</p>

RESI-ENOGW-ETH

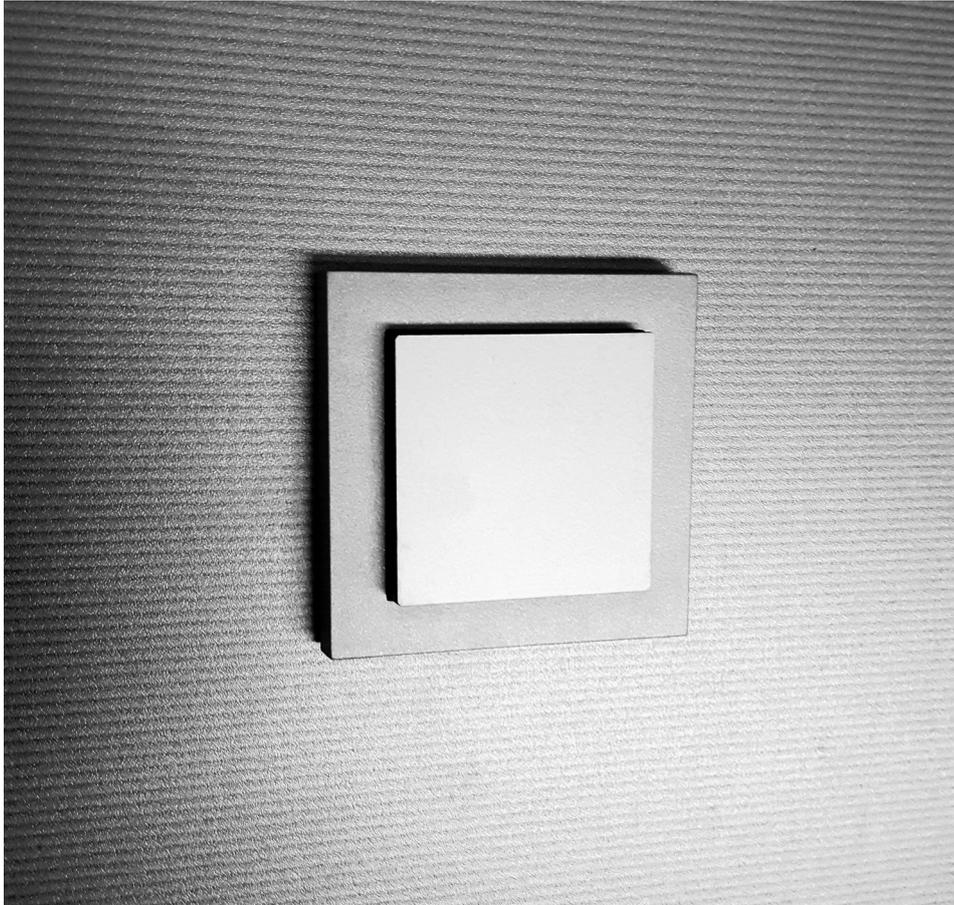
Our powerful master gateway between ENOCEAN sensors and host. Host protocol is ENOCEAN ESP3 protocol via TCP/IP socket. Host communication via Ethernet interface. Bidirectional communication with ENOCEAN devices. ENOCEAN Antenna connector: SMA



<p>HOST ENOCEAN ESP3 PROTOCOL</p> <p>ETHERNET</p>  <p>ENOCEAN 868MHZ</p> 	<p>ENOCEAN↔ ESP[®]3 bidirectional gateway</p>	<p>ENOCEAN All frame types supported</p>	<p>ESP[®]3 host protocol</p>	<p>868MHZ EU Version</p>
	<p>Functionality Bidirectional gateway between host and ENOCEAN devices. Host protocol is ENOCEAN ESP3 protocol.</p>		<p>Ethernet Web Server for IP V4 setup ESP3 protocol via Ethernet Socket</p>	<p>1xEtherNET 10/100MBit RJ45</p>
	<p>Own software use your own software for ENOCEAN sensors</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM35 35.8x90x56.4mm</p>	<p>IP settings DHCP or static IPV4 settings</p>
			<p>12-48V= Power supply</p>	

RESI-RG-ENO2-K

Our powerful master gateway between ENOCEAN sensors and KNX bus system. Host protocol is KNX protocol via KNX TP cable. Bidirectional communication with ENOCEAN devices. Integrated ENOCEAN Antenna.



	ENOCEAN↔ KNX bidirectional gateway	ENOCEAN All frame types supported	KNX all common data types supported	868MHz EU Version
	Functionality Bidirectional gateway between KNX group addresses and ENOCEAN sensors with automatic data type conversion. Simple configuration of mapping between ENOCEAN sensors and KNX. Easy testing of mapping.		KNX Interface All 65536 KNX group addresses can be used Mapping is downloaded via KNX	DESIGN Various design options available
	LIBRE OFFICE® free configuration software	On-wall mounting	SIZE 80x80x15mm	KNX Power supply
		FRAMES GIRA®, BERKER®, JUNG®, SIEMENS®,...		

SMI

it's all about perfection

RESI

RESI-SMIX-XXX

Our powerful master gateways to control SMI (STANDARD MOTOR INTERFACE) shades and blinds. We offer two versions: One for 8 SMI motors and one for 16 SMI motors. Both with internal SMI power supply. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Special version with SMI protocol for diagnostic purposes. It is a SMI sniffer without internal SMI power supply. All products with RS232/RS485 can be used with original SMI software EasyMonitor 3.



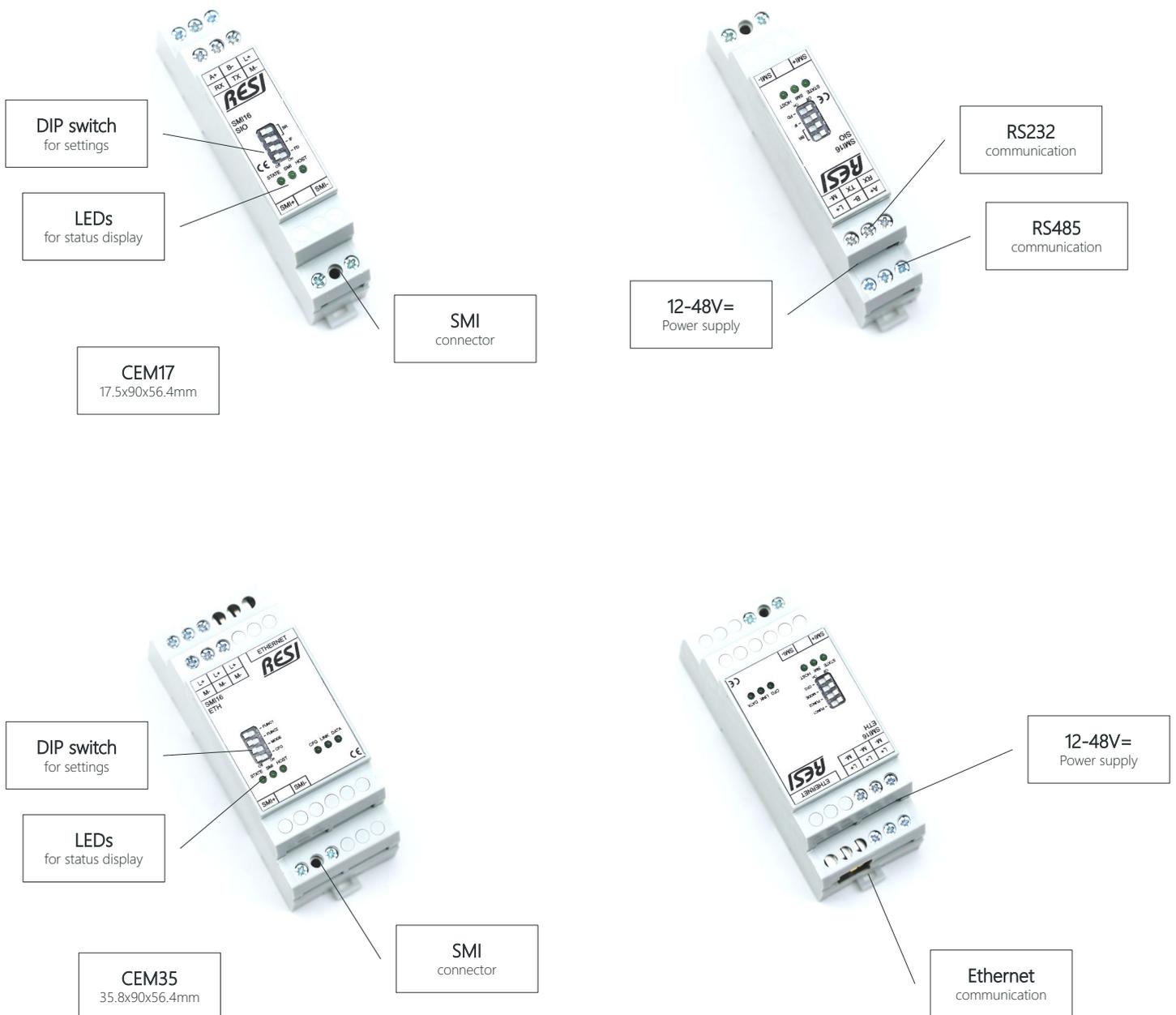
RESI-SMI8-SIO	SMI Gateway	RS232 RS485	SMI 8 shades/blinds	Integrated SMI power supply	MODBUS/RTU Slave ASCII text protocol
RESI-SMI16-SIO	SMI Gateway	RS232 RS485	SMI 16 shades/blinds	Integrated SMI power supply	MODBUS/RTU Slave ASCII text protocol
RESI-SMI8-ETH	SMI Gateway	ETHERNET	SMI 8 shades/blinds	Integrated SMI power supply	MODBUS/TCP Server ASCII text socket
RESI-SMI16-ETH	SMI Gateway	ETHERNET	SMI 16 shades/blinds	Integrated SMI power supply	MODBUS/TCP Server ASCII text socket



RESI-SMI16-DIAG	SMI Diagnostic gateway	RS232 RS485	SMI 16 shades/blinds	NO SMI power supply	SMI® protocol
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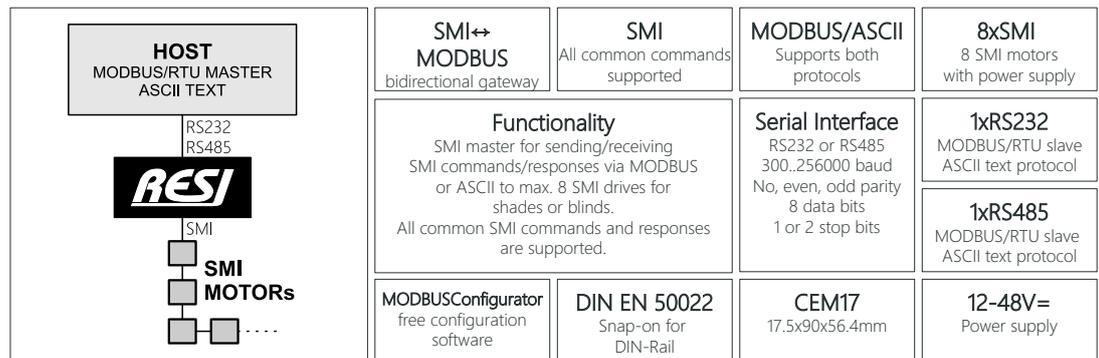
RESI-SMIX-XXX

Our powerful master gateways to control SMI (STANDARD MOTOR INTERFACE) shades and blinds. We offer two versions: One for 8 SMI motors and one for 16 SMI motors. Both with internal SMI power supply. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Special version with SMI protocol for diagnostic purposes. It is a SMI sniffer without internal SMI power supply. All products with RS232/RS485 can be used with original SMI software EasyMonitor 3.



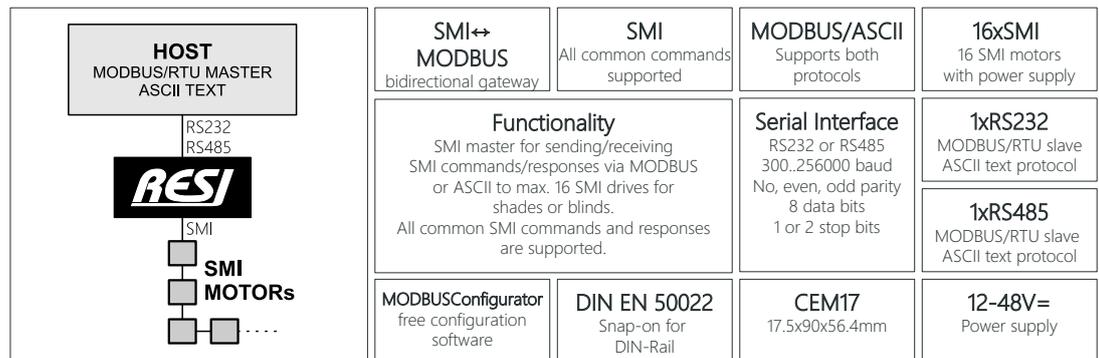
RESI-SMI8-SIO

Our powerful master gateway to control SMI (STANDARD MOTOR INTERFACE) shades and blinds. Connect up to 8 SMI motors in line or star topology. Integrated SMI power supply to drive the SMI data bus. Host protocols: MODBUS/RTU or ASCII text. This gateway can be used with the original SMI software EasyMonitor 3 to configure and test the SMI installation.



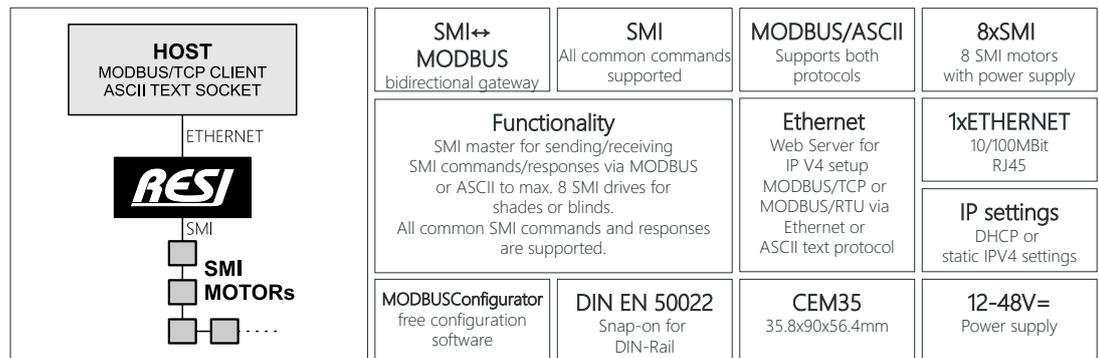
RESI-SMI16-SIO

Our powerful master gateway to control SMI (STANDARD MOTOR INTERFACE) shades and blinds. Connect up to 16 SMI motors in line or star topology. Integrated SMI power supply to drive the SMI data bus. Host protocols: MODBUS/RTU or ASCII text. This gateway can be used with the original SMI software EasyMonitor 3 to configure and test the SMI installation.



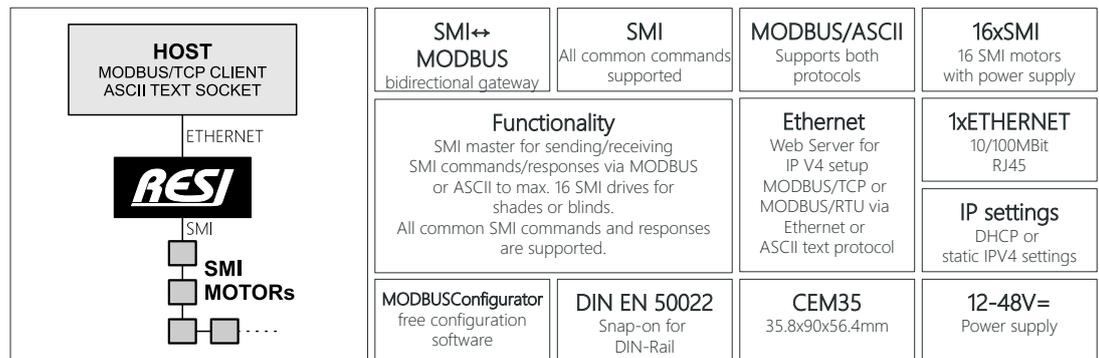
RESI-SMI8-ETH

Our powerful master gateway to control SMI (STANDARD MOTOR INTERFACE) shades and blinds. Connect up to 8 SMI motors in line or star topology. Integrated SMI power supply to drive the SMI data bus. Host protocols: MODBUS/TCP or ASCII text.



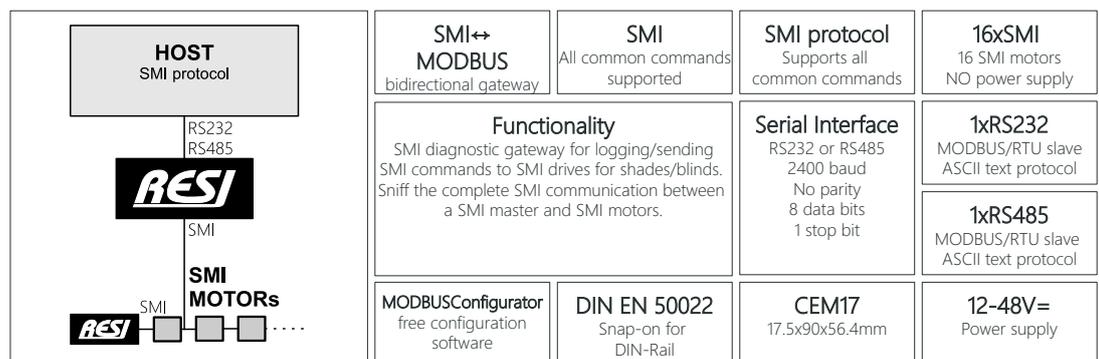
RESI-SMI16-ETH

Our powerful master gateway to control SMI (STANDARD MOTOR INTERFACE) shades and blinds. Connect up to 16 SMI motors in line or star topology. Integrated SMI power supply to drive the SMI data bus. Host protocols: MODBUS/TCP or ASCII text.



RESI-SMI16-DIAG

Our powerful diagnostic gateway to check and control SMI (STANDARD MOTOR INTERFACE) shades and blinds. Connect up to 16 SMI motors in line or star topology together with an additional SMI master. The gateway has NO Integrated SMI power supply to drive the SMI data bus. The gateway communicates with the standard SMI protocol and forwards the complete SMI communication to the RS232 or RS485. This gateway can be used with the original SMI software EasyMonitor 3 to configure and test the SMI installation.



TCP ↔ SERIAL

it's all about perfection _____

RESI

RESI-1RSxxx-xxx

Our TCP to serial gateways with three operation modes: MODBUS/TCP Server to MODBUS/RTU master protocol conversion, MODBUS/RTU master via TCP/IP socket, Transparent data exchange between TCP/IP socket and serial line.

Galvanic insulated serial line extenders with two independent serial interfaces for extending MODBUS/RTU networks or for integration of various devices with RS232 or RS485 interface. Individual baud rate, data bits, parity and stop bit settings for both interfaces possible. Special versions with second protocol available.

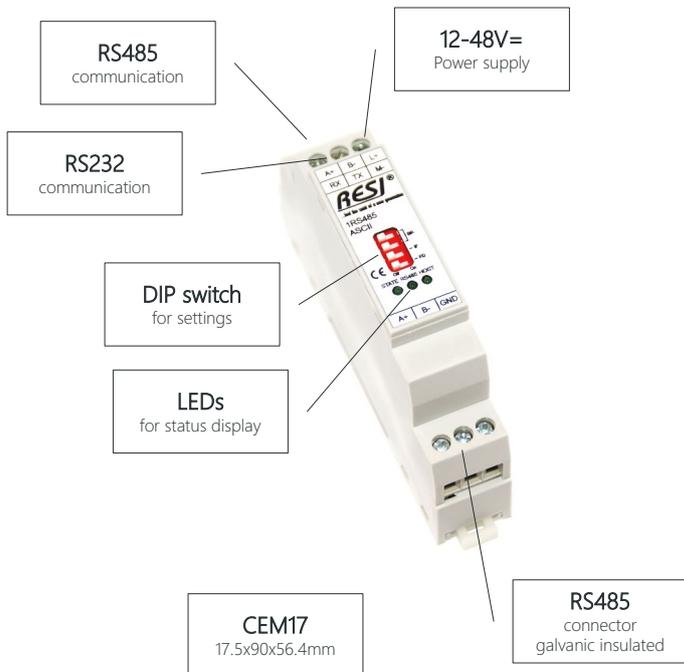


RESI-1RS232-ETH	MODBUS/TCP MODBUS/RTU Gateway	RS232 RS485	RS232	TRANSPARENT protocol	MODBUS/RTU via ETHERNET protocol	MODBUS/TCP protocol
RESI-1RS485-ETH	MODBUS/TCP MODBUS/RTU Gateway	ETHERNET	RS485	TRANSPARENT protocol	MODBUS/RTU via ETHERNET protocol	MODBUS/TCP protocol
RESI-1RS232-SIO	MODBUS/RTU MODBUS/RTU Gateway	RS232 RS485	RS232	USER SPECIFIC protocols	TRANSPARENT protocol	MODBUS/RTU protocol
RESI-1RS485-SIO	MODBUS/RTU MODBUS/RTU Gateway	RS232 RS485	RS485	USER SPECIFIC protocols	TRANSPARENT protocol	MODBUS/RTU protocol

RESI-1RSxxx-xxx

Our TCP to serial gateways with three operation modes: MODBUS/TCP Server to MODBUS/RTU master protocol conversion, MODBUS/RTU master via TCP/IP socket, Transparent data exchange between TCP/IP socket and serial line.

Galvanic insulated serial line extenders with two independent serial interfaces for extending MODBUS/RTU networks or for integration of various devices with RS232 or RS485 interface. Individual baud rate, data bits, parity and stop bit settings for both interfaces possible. Special versions with second protocol available.



RESI-1RS485-ETH

Our TCP to serial gateways with three operation modes: MODBUS/TCP Server to MODBUS/RTU master protocol conversion, MODBUS/RTU master via TCP/IP socket, Transparent data exchange between TCP/IP socket and RS485 serial interface.



	TCP to SERIAL Gateway	MODBUS TCP to RTU	MODBUS RTU via Ethernet	TRANSPARENT Ethernet to RS485	
	Functionality Bidirectional gateway between TCP/IP socket and RS485 interface with various protocol possibilities. Integrated MODBUS/TCP to MODBUS/RTU frame conversion.	Ethernet Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet or transparent protocol	1xETHERNET 10/100MBit RJ45	IP settings DHCP or static IPV4 settings	
	Own software use your own software	DIN EN 50022 Snap-on for DIN-Rail	CEM35 35.8x90x56.4mm	12-48V= Power supply	

RESI-1RS232-ETH

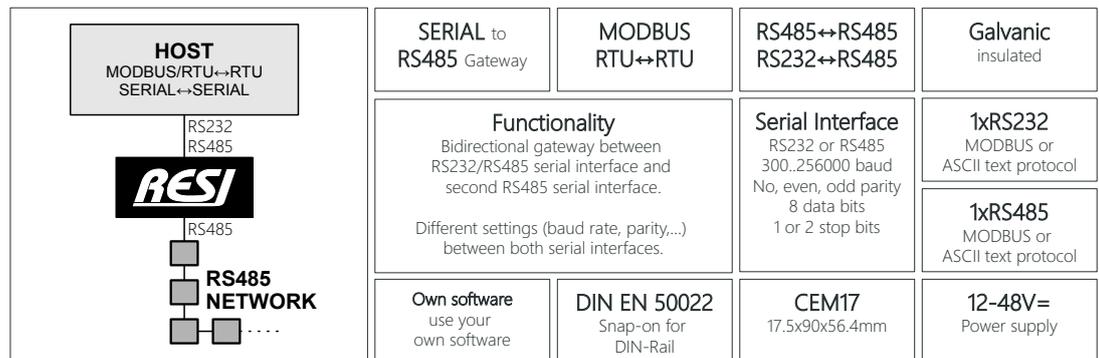
Our TCP to serial gateways with three operation modes: MODBUS/TCP Server to MODBUS/RTU master protocol conversion, MODBUS/RTU master via TCP/IP socket, Transparent data exchange between TCP/IP socket and RS232 serial interface.



<p>HOST MODBUS/TCP↔RTU TCP↔SERIAL</p> <p>ETHERNET</p>  <p>RS232</p> <p>RS232 DEVICE</p>	<p>TCP to SERIAL Gateway</p>	<p>MODBUS TCP↔RTU</p>	<p>MODBUS RTU via Ethernet</p>	<p>TRANSPARENT Ethernet↔RS232</p>
	<p>Functionality Bidirectional gateway between TCP/IP socket and RS232 interface with various protocol possibilities.</p> <p>Integrated MODBUS/TCP to MODBUS/RTU frame conversion.</p>	<p>Ethernet Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet or transparent protocol</p>	<p>1xETHERNET 10/100MBit RJ45</p>	<p>IP settings DHCP or static IPV4 settings</p>
<p>Own software use your own software</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM35 35.8x90x56.4mm</p>	<p>12-48V= Power supply</p>	

RESI-1RS485-SIO

Our serial gateways with two galvanic insulated serial interfaces. Used for media conversion between RS232/RS485 and RS485 interface or for line extension on RS485. Individual baud rate, data bits, parity and stop bit settings for both interfaces possible. Transparent data exchange between the two serial interfaces. Special versions with integrated protocol conversion available.



RESI-1RS232-SIO

Our serial gateways with two galvanic insulated serial interfaces. Used for media conversion between RS232/RS485 and RS232 interface. Individual baud rate, data bits, parity and stop bit settings for both interfaces possible. Transparent data exchange between the two serial interfaces. Special versions with integrated protocol conversion available.



<p>HOST MODBUS/RTU↔RTU SERIAL↔SERIAL</p> <p>RS232 RS485</p>  <p>RS232</p> <p>RS232 DEVICE</p>	<p>SERIAL to RS232 Gateway</p>	<p>MODBUS RTU↔RTU</p>	<p>RS485↔RS232 RS232↔RS232</p>	<p>Galvanic insulated</p>
	<p>Functionality Bidirectional gateway between RS232/RS485 serial interface and second RS232 serial interface. Different settings (baud rate, parity,...) between both serial interfaces.</p>	<p>Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits</p>	<p>1xRS232 MODBUS or ASCII text protocol</p>	<p>1xRS485 MODBUS or ASCII text protocol</p>
<p>Own software use your own software</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM17 17.5x90x56.4mm</p>	<p>12-48V= Power supply</p>	

USB

it's all about perfection _____

RESI

RESI-USB-xxx

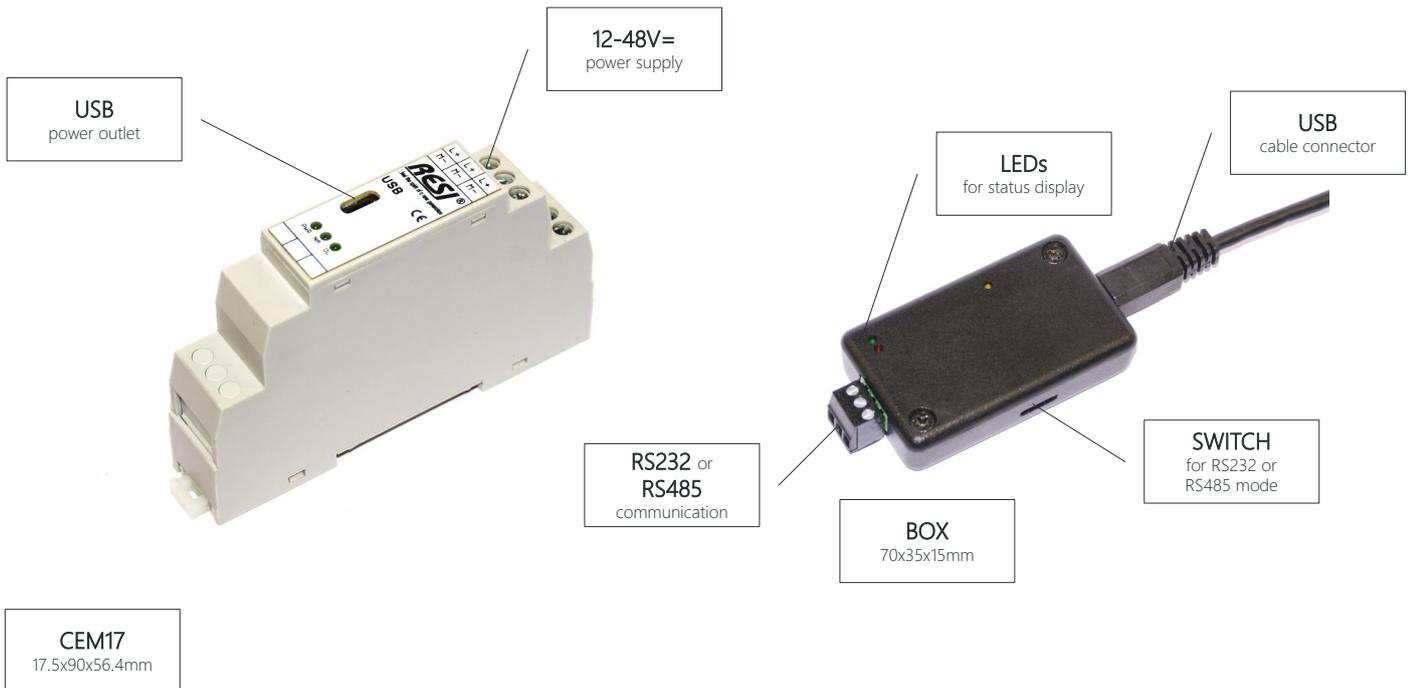
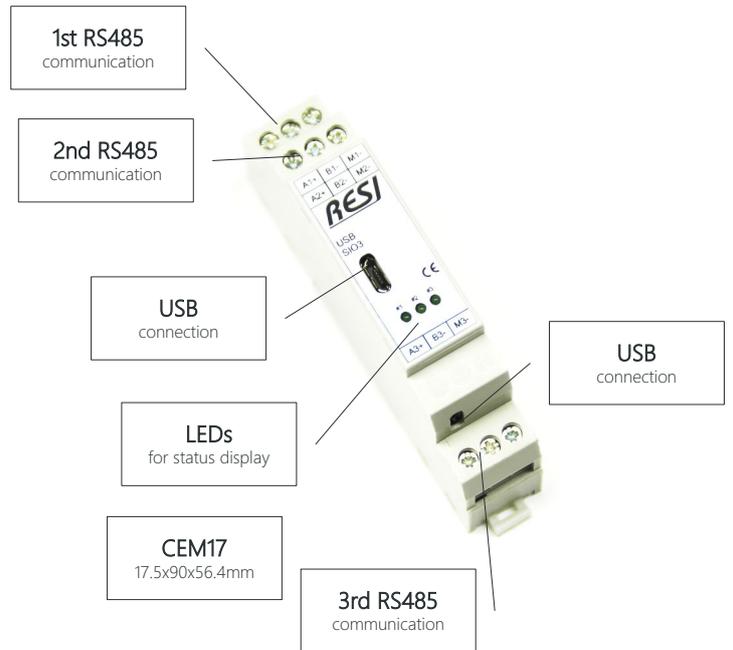
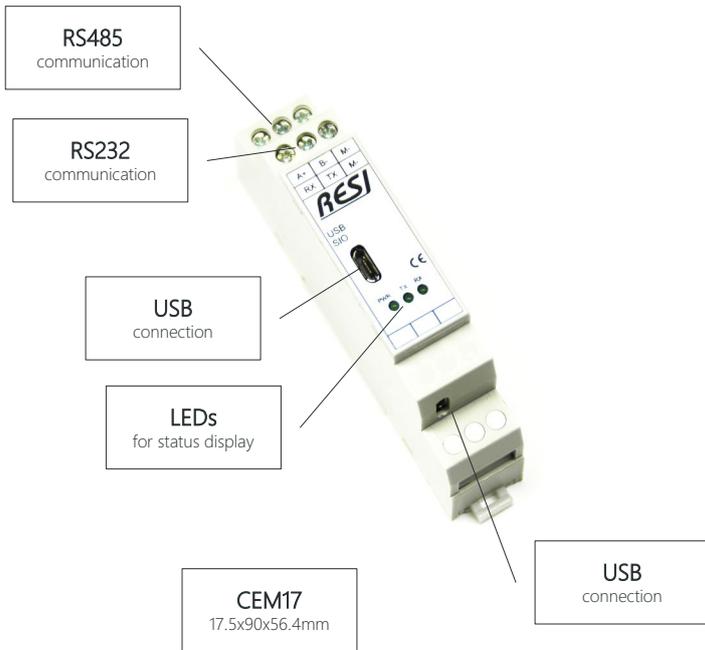
Our USB to serial gateways offer either a RS232 or RS485 interface or three RS485 interfaces. USB standard is USB 1.1/USB.2.0. In addition we offer a USB power supply with 700mA USB output current. We offer a RS232/RS485 USB gateway with a box housing designed for laptop usage.



RESI-USB-SIO	USB↔SERIAL Gateway	USB 1.1 USB 2.0	RS232 or RS485	Silicon Labs CP2103 chipset	RS485 Automatic TX/RX flow control
RESI-USB-SIO3	USB↔SERIAL Gateway	USB 1.1 USB 2.0	3xRS485	ST Microsystems STM32 chipset	RS485 Automatic TX/RX flow control
RESI-USB-BOX	USB↔SERIAL Gateway	USB 1.1 USB 2.0	RS232 or RS485	Silicon Labs CP2103 chipset	RS485 Automatic TX/RX flow control
RESI-USB-PS	USB Power supply	12-48V= Power supply	USB Power supply outlet	≤700mA USB output current	

RESI-USB-xxx

Our USB to serial gateways offer either a RS232 or RS485 interface or three RS485 interfaces. USB standard is USB 1.1/USB.2.0. In addition we offer a USB power supply with 700mA USB output current. We offer a RS232/RS485 USB gateway with a box housing designed for laptop usage.



RESI-USB-SIO

Our USB to serial gateway offers either a RS232 or RS485 interface. USB standard is USB 1.1/USB.2.0.



RESI-USB-SIO3

Our USB to serial gateway offers three RS485 interfaces. USB standard is USB 1.1/USB.2.0.



<p>HOST USB to 3xserial</p> <p>USB 1.1/2.0</p> <p>RESI</p> <p>RS485 RS485 RS485</p>	<p>USB to SERIAL Gateway</p>	<p>USB 1.1 USB 2.0</p>	<p>RS232 or RS485</p>	<p>Galvanic insulated</p>
	<p>Functionality USB to serial interface based on STMicrosystems STM32 chipset. Use all three RS485 interfaces parallel via USB port.</p>	<p>Serial Interfaces 3xRS485 300..1Mbaud No, even, odd parity 8 data bits 1 or 2 stop bits</p>	<p>3xRS485 Via terminals</p>	<p>USB Via two connectors</p>
	<p>Own software use your own software</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM17 17.5x90x56.4mm</p>	<p>USB Power supply</p>

RESI-USB-BOX

Our USB to serial gateway offers either a RS232 or RS485 interface. USB standard is USB 1.1/USB.2.0.



RESI-USB-PS

Our USB power supply can power a USB bus system with 700mA output current. Primary power supply 12-48Vdc.



 POWER for USB 		USB output current ≤700mA
	OVERLOAD protection with ERR LED	Functionality Power supply for USB network
	POWER LED	CEM17 17.5x90x56.4mm
	DIN EN 50022 Snap-on for DIN-Rail	12-48V= Power supply

SMART METER

it's all about perfection _____

RESI

RESI-xS0-xxx

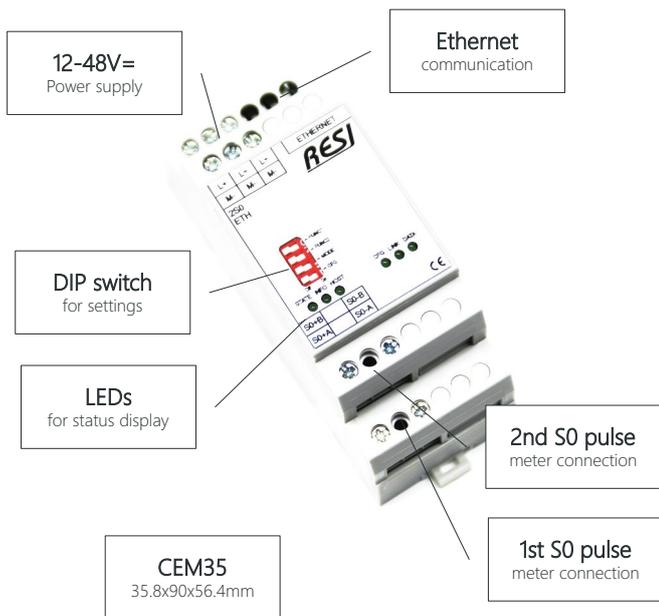
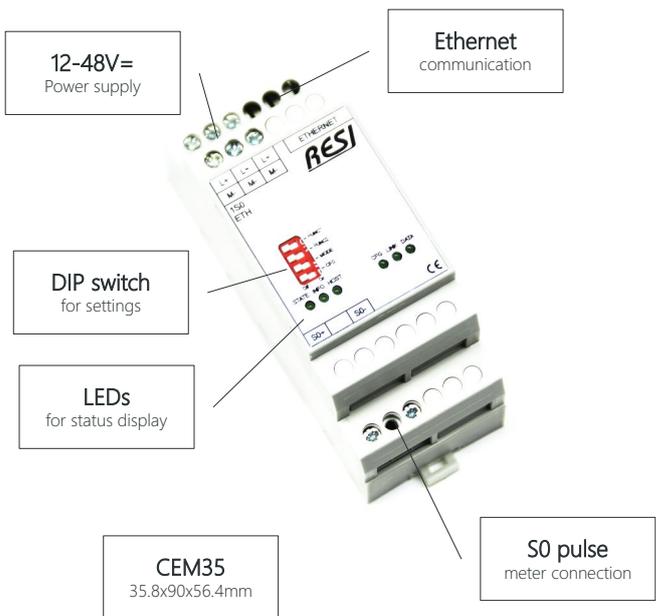
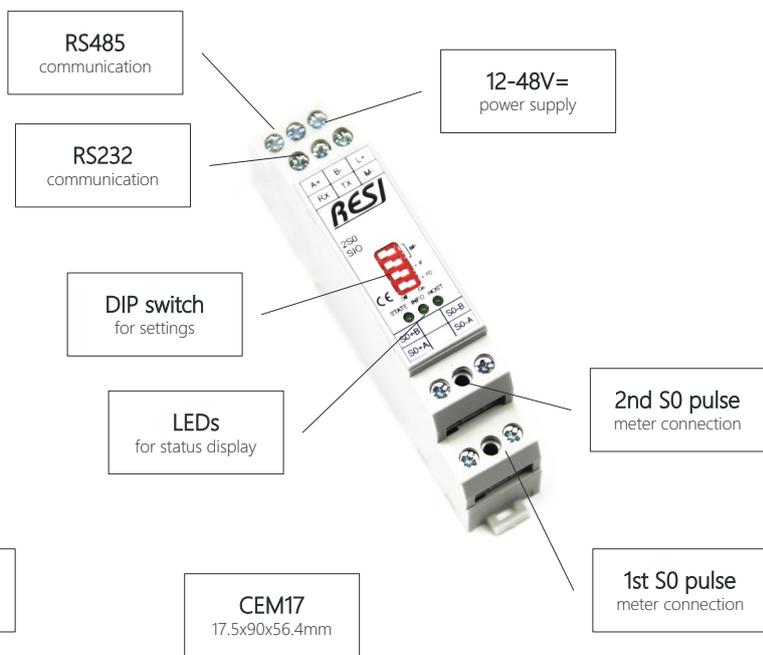
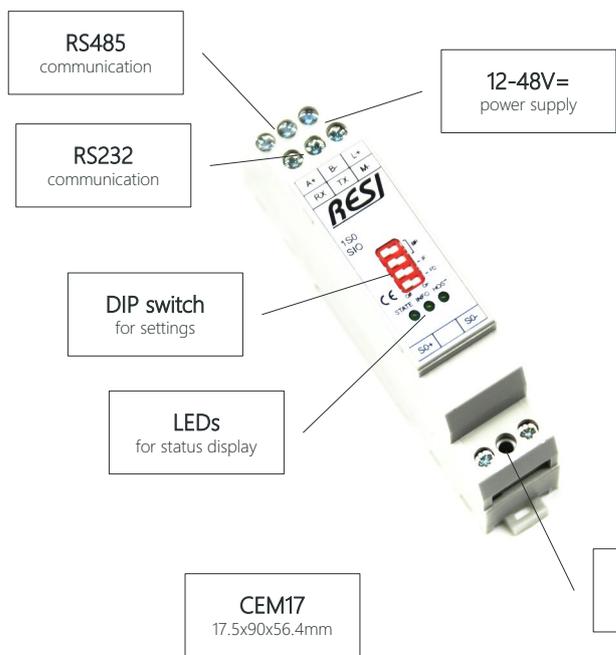
Our powerful S0 gateways count S0 impulses from connected meters with impulse outputs. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Internal ferro magnetic memory to save the actual counter values in case of power lost. Internal calculation of accumulated energy with multiplication factor for impulses. User setup of mute time in ms after a valid pulse detection to avoid wrong counting due to glitches on the signal. Versions with one or two S0 counter inputs available.



RESI-1S0-SIO	RS232 RS485	1xS0	1 Meter	IMPULSE counting	MODBUS/RTU Slave ASCII text protocol
RESI-2S0-SIO	RS232 RS485	1xS0	2 Meter	IMPULSE counting	MODBUS/RTU Slave ASCII text protocol
RESI-1S0-ETH	ETHERNET	2xS0	1 Meter	IMPULSE counting	MODBUS/TCP Server ASCII text socket
RESI-2S0-ETH	ETHERNET	2xS0	2 Meter	IMPULSE counting	MODBUS/TCP Server ASCII text socket

RESI-xS0-xxx

Our powerful S0 gateways count S0 impulses from connected meters with impulse outputs. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Internal ferro magnetic memory to save the actual counter values in case of power lost. Internal calculation of accumulated energy with multiplication factor for impulses. User setup of mute time in ms after a valid pulse detection to avoid wrong counting due to glitches on the signal. Versions with one or two S0 counter inputs available.



RESI-1S0-SIO

Our powerful S0 gateway counts S0 impulses from one connected meter with impulse output. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Internal ferro magnetic memory to save the actual counter values in case of power lost. Internal calculation of accumulated energy with multiplication factor for impulses. User setup of mute time in ms after a valid pulse detection to avoid wrong counting due to glitches on the signal.



	1xS0 pulse counting module	S0 pulse duration $\geq 30\text{ms}$	S0 current I _{typ} ~13.6mA I _{max} $\leq 20\text{mA}$	S0 voltage 15V=	
	Functionality Counts S0 pulses from a connected smart meter with S0 pulse output or reed contact. Individual configuration of pulse duration and multiplication factor for energy calculation.	Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS232 MODBUS/RTU slave ASCII text protocol 1xRS485 MODBUS/RTU slave ASCII text protocol	Own software use your own software	DIN EN 50022 Snap-on for DIN-Rail
	CEM17 17.5x90x56.4mm	12-48V= Power supply			

RESI-2S0-SIO

Our powerful S0 gateway counts S0 impulses from two connected meters with impulse output. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Internal ferro magnetic memory to save the actual counter values in case of power lost. Internal calculation of accumulated energy with multiplication factor for impulses. User setup of mute time in ms after a valid pulse detection to avoid wrong counting due to glitches on the signal.



	2xS0 pulse counting module	S0 pulse duration $\geq 30\text{ms}$	S0 current $I_{\text{typ}} \sim 8.2\text{mA}$ $I_{\text{max}} \leq 20\text{mA}$	S0 voltage $15\text{V}=\text{}$
	Functionality Counts S0 pulses from two connected smart meter with S0 pulse output or reed contact. Individual configuration of pulse duration and multiplication factor for energy calculation.	Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS232 MODBUS/RTU slave ASCII text protocol 1xRS485 MODBUS/RTU slave ASCII text protocol	Own software use your own software
		CEM17 17.5x90x56.4mm	12-48V= Power supply	

RESI-1S0-ETH

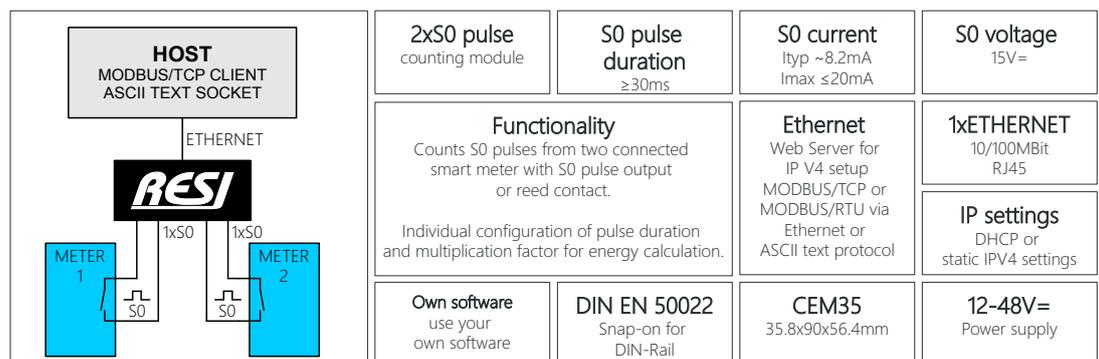
Our powerful S0 gateway counts S0 impulses from one connected meter with impulse output. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Internal ferro magnetic memory to save the actual counter values in case of power lost. Internal calculation of accumulated energy with multiplication factor for impulses. User setup of mute time in ms after a valid pulse detection to avoid wrong counting due to glitches on the signal.



<p>HOST MODBUS/TCP CLIENT ASCII TEXT SOCKET</p> <p>ETHERNET</p> <p>RESI</p> <p>1xS0</p> <p>ELECTRICITY WATER METER</p>	<p>1xS0 pulse counting module</p>	<p>S0 pulse duration ≥30ms</p>	<p>S0 current I_{typ} ~13.6mA I_{max} ≤20mA</p>	<p>S0 voltage 15V=</p>
	<p>Functionality Counts S0 pulses from a connected smart meter with S0 pulse output or reed contact.</p> <p>Individual configuration of pulse duration and multiplication factor for energy calculation.</p>	<p>Ethernet Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet or ASCII text protocol</p>	<p>1xEtherNET 10/100MBit RJ45</p>	<p>IP settings DHCP or static IPV4 settings</p>
	<p>Own software use your own software</p>	<p>DIN EN 50022 Snap-on for DIN-Rail</p>	<p>CEM35 35.8x90x56.4mm</p>	<p>12-48V= Power supply</p>

RESI-2S0-ETH

Our powerful S0 gateway counts S0 impulses from two connected meters with impulse output. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Internal ferro magnetic memory to save the actual counter values in case of power lost. Internal calculation of accumulated energy with multiplication factor for impulses. User setup of mute time in ms after a valid pulse detection to avoid wrong counting due to glitches on the signal.



RESI-1EGYDCx-xxx

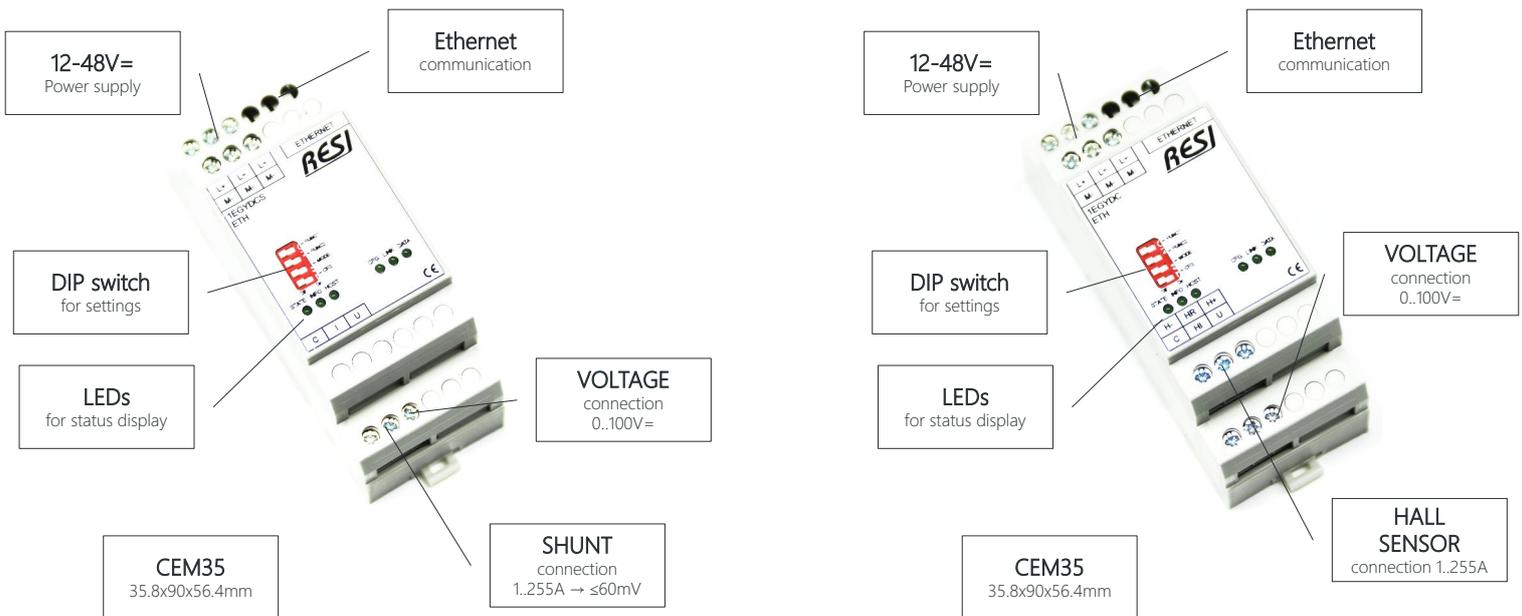
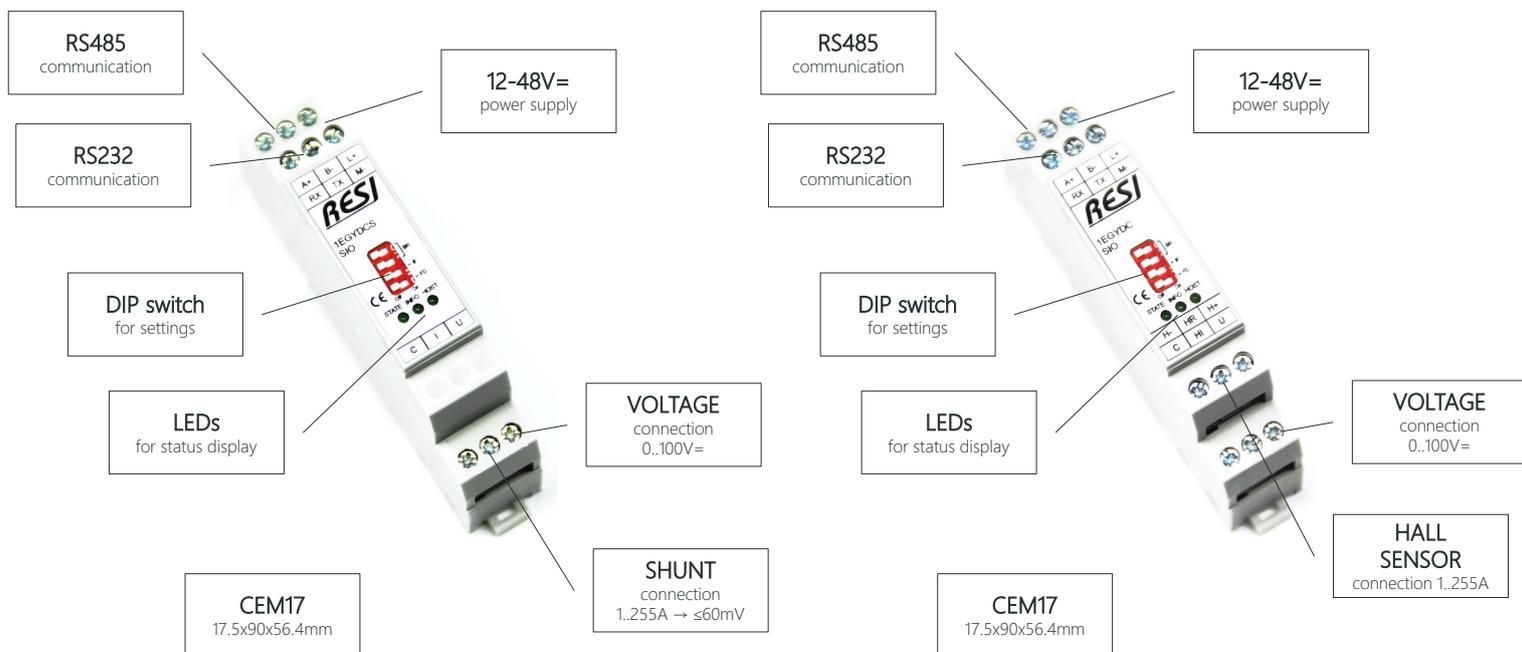
Our powerful DC energy meters measures the DC voltage and DC current either with an external shunt or with an external Hall sensor. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Internal ferro magnetic memory to save the actual values in case of power lost. Internal calculation of power and energy.



RESI-1EGYDCS-SIO	RS232 RS485	1xDC SMART METER	1 Meter	U: $\leq 100V=$ I: $\leq 255A$	SHUNT measurement of DC CURRENT	MODBUS/RTU Slave ASCII text protocol
RESI-1EGYDC-SIO	RS232 RS485	1xDC SMART METER	1 Meter	U: $\leq 100V=$ I: $\leq 255A$	HALL SENSOR measurement of DC CURRENT	MODBUS/RTU Slave ASCII text protocol
RESI-1EGYDCS-ETH	ETHERNET	1xDC SMART METER	1 Meter	U: $\leq 100V=$ I: $\leq 255A$	SHUNT measurement of DC CURRENT	MODBUS/TCP Server ASCII text socket
RESI-1EGYDC-ETH	ETHERNET	1xDC SMART METER	1 Meter	U: $\leq 100V=$ I: $\leq 255A$	HALL SENSOR measurement of DC CURRENT	MODBUS/TCP Server ASCII text socket

RESI-1EGYDCx-xxx

Our powerful DC energy meters measures the DC voltage and DC current either with an external shunt or with an external Hall sensor. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Internal ferro magnetic memory to save the actual values in case of power lost. Internal calculation of power and energy.



RESI-1EGYDCS-SIO

Our powerful DC energy meter measures the DC voltage and DC current with an external shunt. Shunt currents between 1 and 255A. Shunt output voltage $\leq 60\text{mA}$. Host protocols: MODBUS/RTU or ASCII text. Internal ferro magnetic memory to save the actual values in case of power lost. Internal calculation of power and energy.



	1xDC ENERGY METER	SHUNT measurement	DC voltage $V_{\text{max}} \leq 100\text{V}$	DC current $I_{\text{max}} \leq 255\text{A}$	
	Functionality Measures DC voltage & current. Calculates DC power and energy. DC current measurement with external shunt. Shunt output voltage $\leq 60\text{mV}$.	Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS232 MODBUS/RTU slave ASCII text protocol	1xRS485 MODBUS/RTU slave ASCII text protocol	
	Own software use your own software	DIN EN 50022 Snap-on for DIN-Rail	CEM17 17.5x90x56.4mm	12-48V= Power supply	

RESI-1EGYDC-SIO

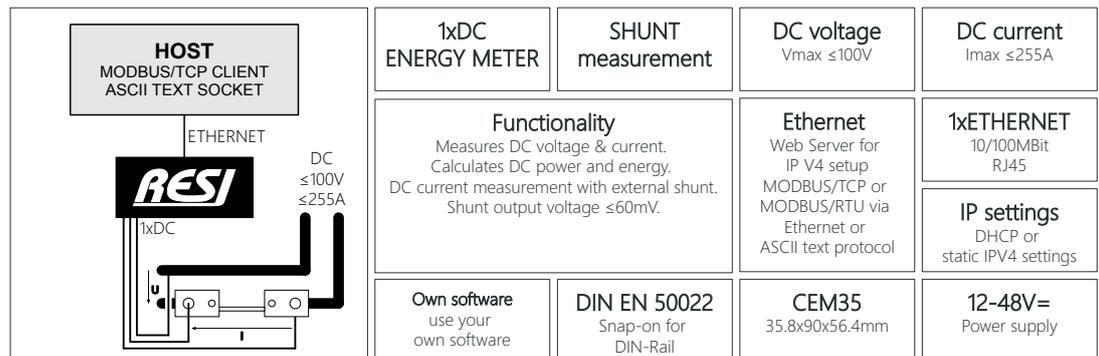
Our powerful DC energy meter measures the DC voltage and DC current with an external hall sensor. Hall sensor currents between 1 and 255A. Host protocols: MODBUS/RTU or ASCII text. Internal ferro magnetic memory to save the actual values in case of power lost. Internal calculation of power and energy.



	1xDC ENERGY METER	HALL SENSOR measurement	DC voltage $V_{max} \leq 100V$	DC current $I_{max} \leq 255A$
	Functionality Measures DC voltage & current. Calculates DC power and energy. DC current measurement with external hall sensor. Hall sensor output voltage $2.5V \pm 0.625V$.	Serial Interface RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS232 MODBUS/RTU slave ASCII text protocol	1xRS485 MODBUS/RTU slave ASCII text protocol
Own software use your own software	DIN EN 50022 Snap-on for DIN-Rail	CEM17 17.5x90x56.4mm	12-48V= Power supply	

RESI-1EGYDCS-ETH

Our powerful DC energy meter measures the DC voltage and DC current with an external shunt. Shunt currents between 1 and 255A. Shunt output voltage $\leq 60\text{mA}$. Host protocols: MODBUS/TCP or ASCII text socket. Internal ferro magnetic memory to save the actual values in case of power lost. Internal calculation of power and energy.



RESI-1EGYDC-ETH

Our powerful DC energy meter measures the DC voltage and DC current with an external hall sensor. Hall sensor currents between 1 and 255A. Host protocols: MODBUS/TCP or ASCII text socket. Internal ferro magnetic memory to save the actual values in case of power lost. Internal calculation of power and energy.



	1xDC ENERGY METER	HALL SENSOR measurement	DC voltage $V_{max} \leq 100V$	DC current $I_{max} \leq 255A$	
	Functionality Measures DC voltage & current. Calculates DC power and energy. DC current measurement with external hall sensor. Hall sensor output voltage $2.5V \pm 0.625V$.	Ethernet Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet or ASCII text protocol	1xETHERNET 10/100MBit RJ45	IP settings DHCP or static IPV4 settings	
	Own software use your own software	DIN EN 50022 Snap-on for DIN-Rail	CEM35 35.8x90x56.4mm	12-48V= Power supply	

POWER SUPPLIES

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RESI

POWER-SUPPLIES

We offer various power supplies from AC to DC and especially from DC to DC for TELECOM applications. We offer also a powerful DC UPS with MODBUS/RTU RS485 interface.



RESI-PS-65W-24V	24Vdc power supply	80...264V~ primary power supply	24V= ≤2.71A secondary power supply	6xTERMINALS for 24V= connection	XT5 87.8x110x62mm
RESI-PS-65W-12V	12Vdc power supply	80...264V~ primary power supply	12V= ≤5.42A secondary power supply	6xTERMINALS for 12V= connection	XT5 87.8x110x62mm
RESI-PS-65W-5V	5Vdc power supply	80...264V~ primary power supply	5V= ≤10A secondary power supply	6xTERMINALS for 5V= connection	XT5 87.8x110x62mm
RESI-PS-T-65W-24V	24Vdc power supply	-60...-36V= primary power supply	24V= ≤2.71A secondary power supply	6xTERMINALS for 24V= connection	XT5 87.8x110x62mm
RESI-DC-UPS-60W-24V		24VDC UPS uninterruptable power supply	24V= primary power supply	5xTERMINALS for 24V= connection	XT12 213x110x62mm
			24V= ≤2.5A secondary power supply	Li-Ion accu ~30 minutes	1xRS485 MODBUS/RTU slave ASCII text protocol

CLOCK

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RESI

CLOCK

We offer various real time clock units with RS485 or KNX interface.



RESI-RC-RTC1-MB	REALTIME CLOCK	RS485 Interface	12-48Vdc Power supply	FRAMES GIRA®, BERKER®, JUNG®, SIEMENS®,...	IN-WALL mounting	MODBUS/RTU Slave ASCII text protocol
RESI-RC-RTC1-KP	REALTIME CLOCK	KNX Interface	24Vdc Power supply	FRAMES GIRA®, BERKER®, JUNG®, SIEMENS®,...	IN-WALL mounting	KNX protocol
RESI-RC-RTC2-SIO	REALTIME CLOCK	RS485+KNX Interface	12-48Vdc Power supply	MODERN DESIGN	ON-WALL mounting	MODBUS, ASCII or KNX protocol

RESI-RC-RTC1-MB

Our real time clock for in-wall mounting into a standard 55mm socket outlet. Time synchronization via RS485 interface and MODBUS/RTU or ASCII protocol.

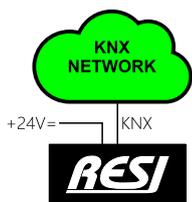


<p>HOST MODBUS/RTU MASTER ASCII TEXT</p> <p>RS485 12-48V=</p>  <p>DATE, TIME, SECONDS YEAR, MONTH, DAY</p> <p>Sync via RS485</p>	<p>RS485 realtime clock</p>	<p>MODBUS/ASCII all common data types supported</p>	<p>DISPLAY date, time, seconds, year, month, day</p>	<p>Synchronization via RS485</p>
	<p>Functionality Realtime clock with accu backup with RS485 interface. External 12-48Vdc power supply necessary. Various display modes: date, time, year, seconds</p>	<p>Interface MODBUS/RTU or ASCII Text protocol for date & time synchronization and parameters</p>	<p>DESIGN Various design options available</p>	<p>FRAMES GIRA®, BERKER®, JUNG®, SIEMENS®,...</p>
	<p>LIBRE OFFICE® free configuration software</p>	<p>In-wall mounting</p>	<p>SIZE 80x80x8mm</p>	<p>12-48V= Power supply</p>

RESI-RC-RTC1-KP

Our real time clock for in-wall mounting into a standard 55mm socket outlet. Time synchronization via KNX interface and KNX protocol. Additional 24Vdc power supply necessary.



 <p>DATE, TIME, SECONDS YEAR, MONTH, DAY</p> <p>Sync via KNX</p>	KNX realtime clock	KNX all common data types supported	DISPLAY date, time, seconds, year, month, day	Synchronisation via KNX
	Functionality Realtime clock with accu backup with KNX interface. External 24Vdc power supply necessary. Various display modes: date, time, year, seconds	KNX Interface All 65536 KNX group addresses can be used Mapping is downloaded via KNX	DESIGN Various design options available	FRAMES GIRA®, BERKER®, JUNG®, SIEMENS®,...
	LIBRE OFFICE® free configuration software	In-wall mounting	SIZE 80x80x8mm	24V= Power supply

RESI-RC-RTC2-SIO

Our real time clock for on-wall mounting onto a socket outlet. Time synchronization via KNX or RS485 interface and MODBUS/RTU, ASCII or KNX protocol. Additional 12-48Vdc power supply necessary.



<p>HOST MODBUS/RTU MASTER ASCII TEXT</p> <p>12-48V= RS485</p>  <p>DATE, TIME, SECONDS YEAR, MONTH, DAY</p> <p>Sync via RS485</p>		<p>RS485 & KNX realtime clock</p>	<p>MODBUS/KNX all common data types supported</p>	<p>DISPLAY date, time, seconds, year, month, day</p>	<p>Synchronisation via KNX or RS485</p>
		<p>Functionality Realtime clock with accu backup with RS485 & KNX interface. External 12-48Vdc power supply necessary.</p> <p>Various display modes: date, time, year, seconds</p>	<p>Interface All 65536 KNX group addresses can be used</p> <p>MODBUS/RTU Slave or ASCII text protocol</p>	<p>DESIGN Various design options available</p>	<p>MODERN DESIGN</p>
<p>LIBRE OFFICE® free configuration software</p>	<p>On-wall mounting</p>	<p>SIZE 100x235x35mm</p>	<p>12-48V= Power supply</p>		

ACCESSORIES

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RESI

ACCESSORIES

Here you will find additional articles to complete our portfolio.



RESI-RS485BA	RS485 passive bus termination	RS485	2 independent RS485 line terminators	DIP switch for enable/disable	CEM17 17.5x90x56.4mm
RESI-RS485BA-BOX	RS485 passive bus termination	RS485	1 independent RS485 line terminator		BOX 40x20x15mm



RESI-SW-5G	5 port SWITCH unmanaged	5xRJ45		12...48V= power supply	XT2 35x110x60mm
RESI-SW-7G	7 port SWITCH unmanaged	7xRJ45		12...48V= power supply	XT2 35x110x60mm
RESI-SW-5G-1SF	6 port SWITCH unmanaged	5xRJ45	1xSFP Slot	12...48V= power supply	XT2 35x110x60mm
RESI-SW-5G-2SF	7 port SWITCH unmanaged	5xRJ45	2xSFP Slot	12...48V= power supply	XT2 35x110x60mm

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