GATEWAYS

it´s all about perfection


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, ...

M-BUS

it´s all about perfection

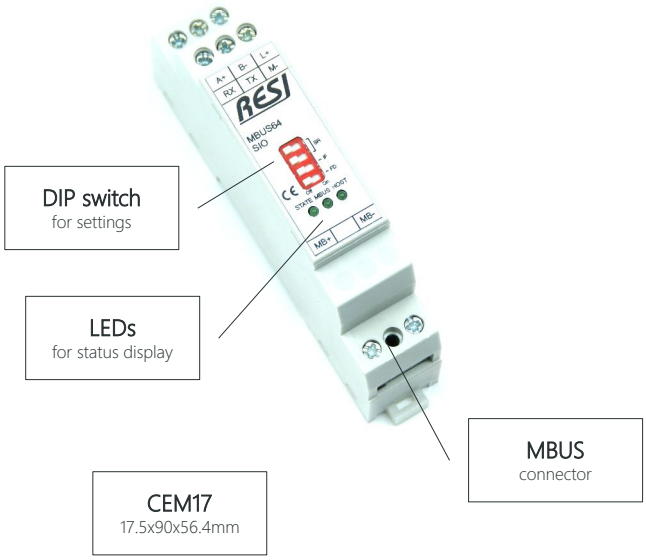
RESI-MBUSx-xxx

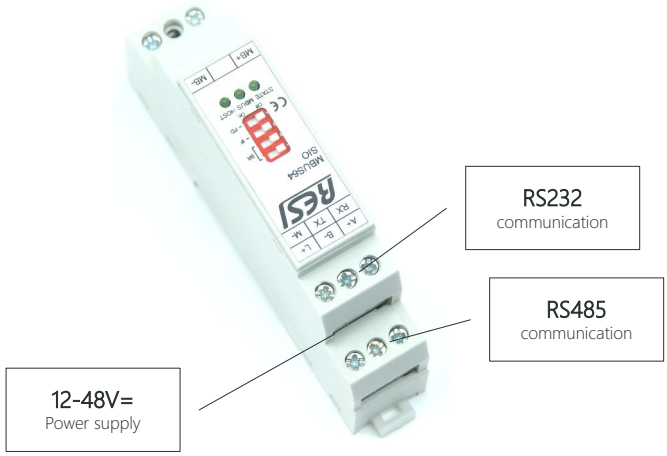
Our powerful gateways between M-BUS smart meter and MODBUS/RTU or MODBUS/TCP host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.

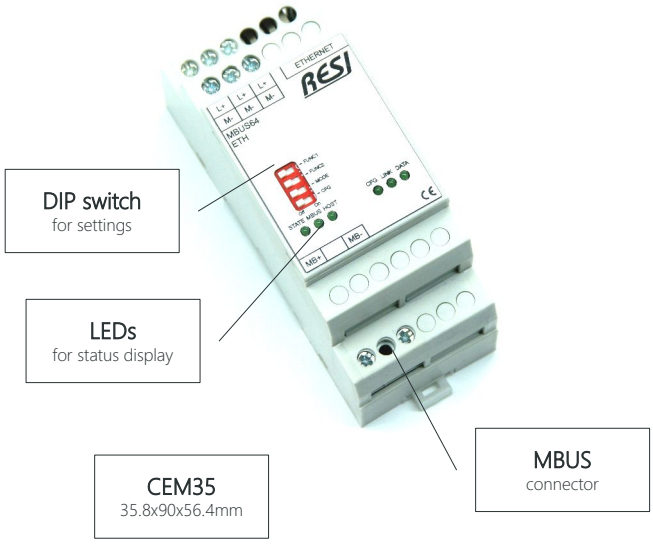
RESI-MBUS2-SIO	RS232 RS485	MBUS	2 Meter	40 Registers	MODBUS/RTU Slave
RESI-MBUS8-SIO	RS232 RS485	MBUS	8 Meter	400 Registers	MODBUS/RTU Slave
RESI-MBUS24-SIO	RS232 RS485	MBUS	24 Meter	1000 Registers	MODBUS/RTU Slave
RESI-MBUS48-SIO	RS232 RS485	MBUS	48 Meter	1200 Registers	MODBUS/RTU Slave
RESI-MBUS64-SIO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

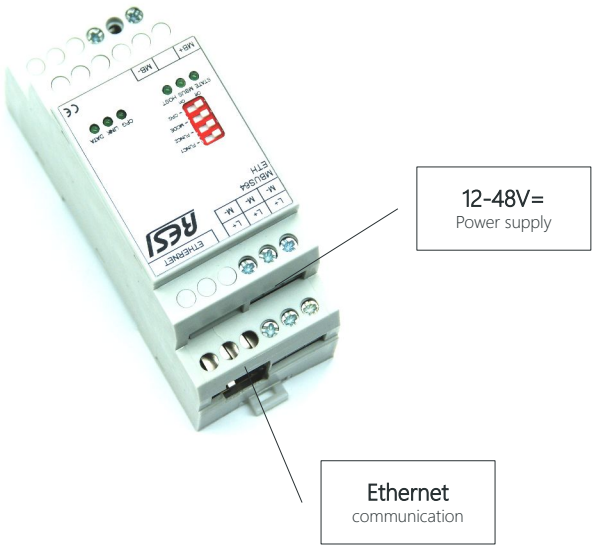
RESI-MBUSx-xxx

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.



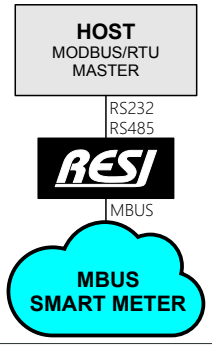






RESI-MBUSx-SIO

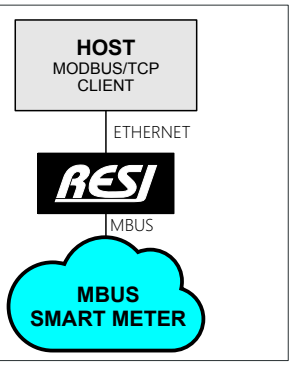
Our powerful gateways between M-BUS smart meter and MODBUS/RTU host with RS232 or RS485 interface. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



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 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		**Serial Interface** RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	**1xRS232** MODBUS/RTU slave protocol **1xRS485** MODBUS/RTU slave protocol
MODBUSConfigurator free configuration software	**DIN EN 50022** Snap-on for DIN-Rail	**CEM17** 17.5x90x56.4mm	**12-48V=** Power supply

RESI-MBUSx-ETH

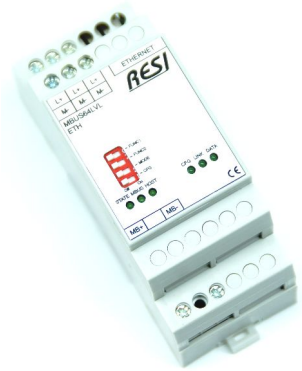
Our powerful gateways between M-BUS smart meter and MODBUS/TCP host with Ethernet interface. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface via cable.



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 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		**Ethernet** Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet 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-MBUSx-LVL-xxx

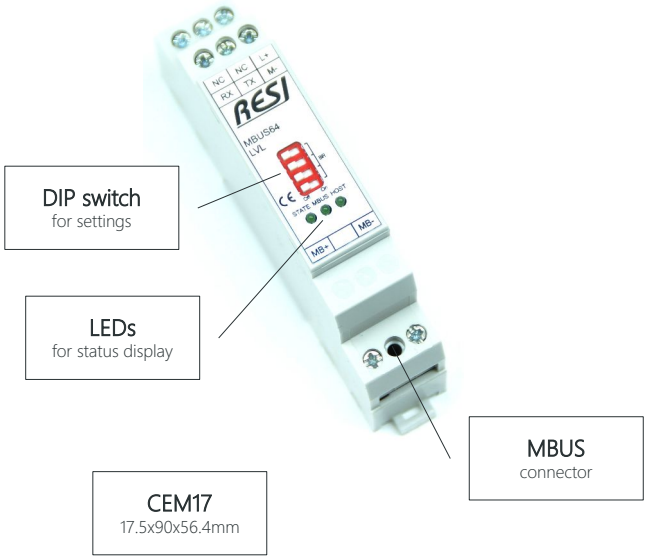
Our powerful level converters between M-BUS smart meter and host with RS232 interface or Ethernet. Host must be capable to read-out and interpret smart meter data based on M-BUS protocol according to EN 1434 and EN 13757. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface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

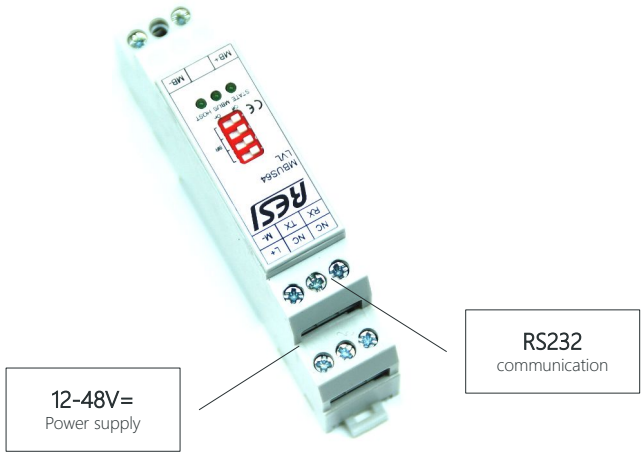


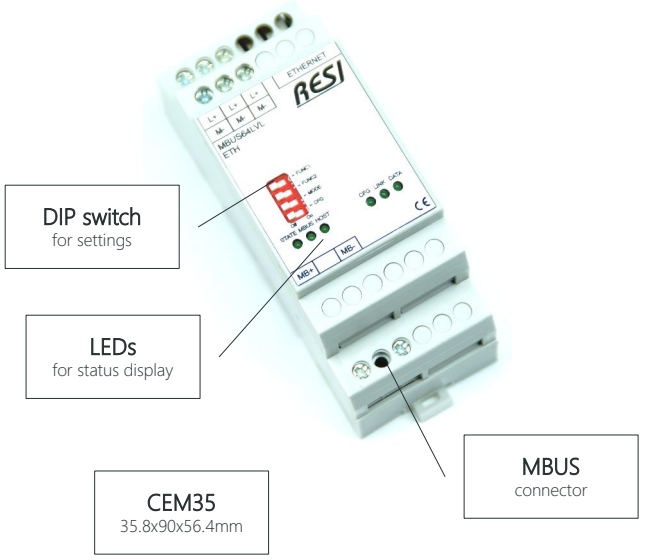
RESI-MBUS24-LVL	RS232	MBUS	24 Meter	M-BUS protocol
RESI-MBUS48-LVL	RS232	MBUS	48 Meter	M-BUS protocol
RESI-MBUS64-LVL	RS232	MBUS	64 Meter	M-BUS protocol
RESI-MBUS24LVL-ETH	ETHERNET	MBUS	24 Meter	M-BUS protocol
RESI-MBUS48LVL-ETH	ETHERNET	MBUS	48 Meter	M-BUS protocol
RESI-MBUS64LVL-ETH	ETHERNET	MBUS	64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

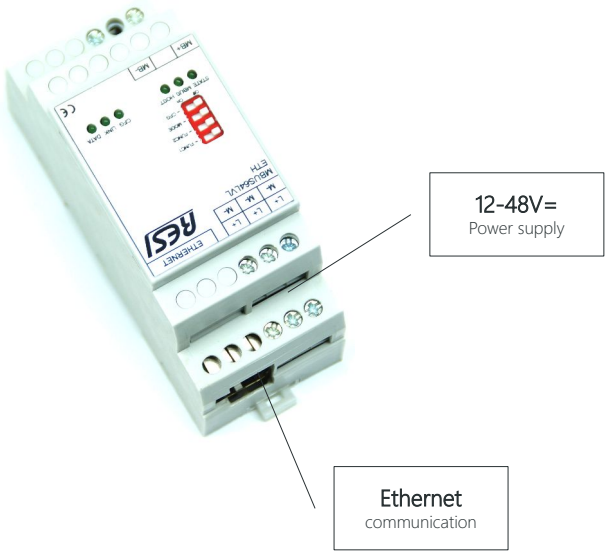
RESI-MBUSx-LVL-xxx

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.



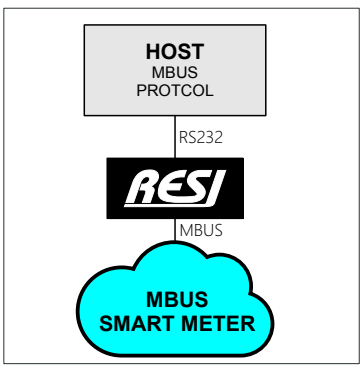






RESI-MBUSx-LVL

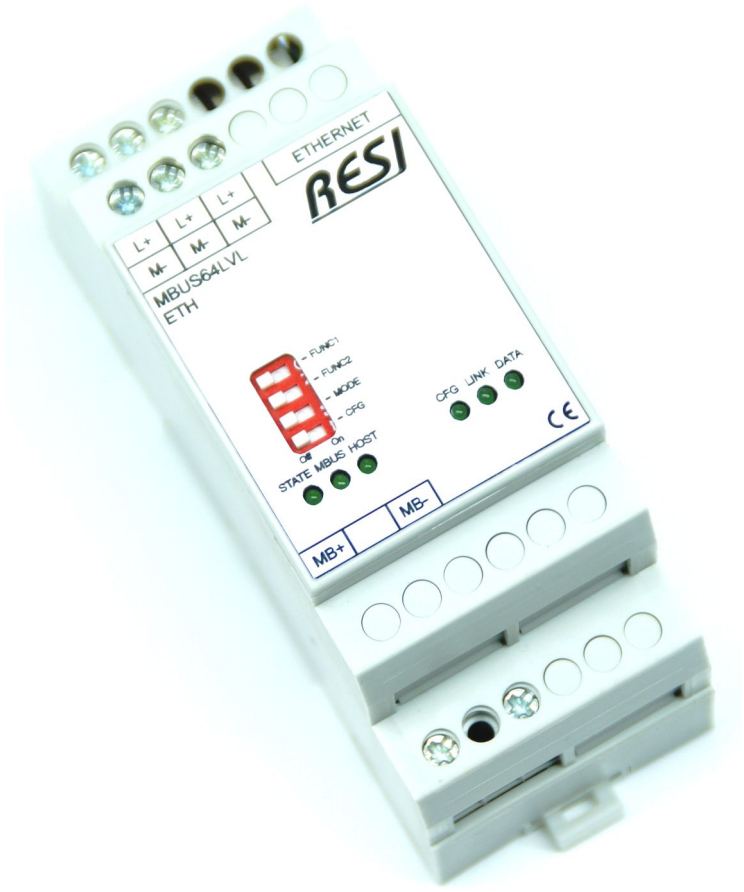
Our powerful level converters between M-BUS smart meter and host with RS232 interface. Host must be capable to read-out and interpret smart meter data based on M-BUS protocol according to EN 1434 and EN 13757 via serial RS232 interface. Connect water, heat, cold, gas or electricity meters with wired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

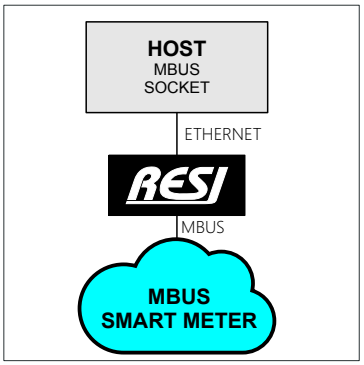


SMART METER Up to 64 smart meter connectable	**M-BUS CABLE** Up to 10km MBUS cable length	**wired M-BUS** connect all meters via cable	**M-BUS supply** build-in power supply for MBUS meter
Functionality Level converter between M-BUS and RS232 Read-out with M-BUS protocol on RS232	**M-BUS interface**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

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.





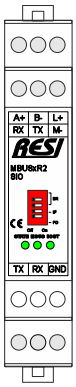
SMART METER Up to 64 smart meter connectable	**M-BUS CABLE** Up to 10km MBUS cable length	**wired M-BUS** connect all meters via cable	**M-BUS supply** build-in power supply for MBUS meter
Functionality Level converter between M-BUS and Ethernet Read-out with M-BUS protocol via Socket	**M-BUS interface** 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

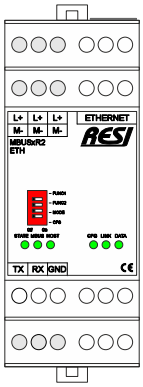
M-BUS with RS232

it´s all about perfection

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.



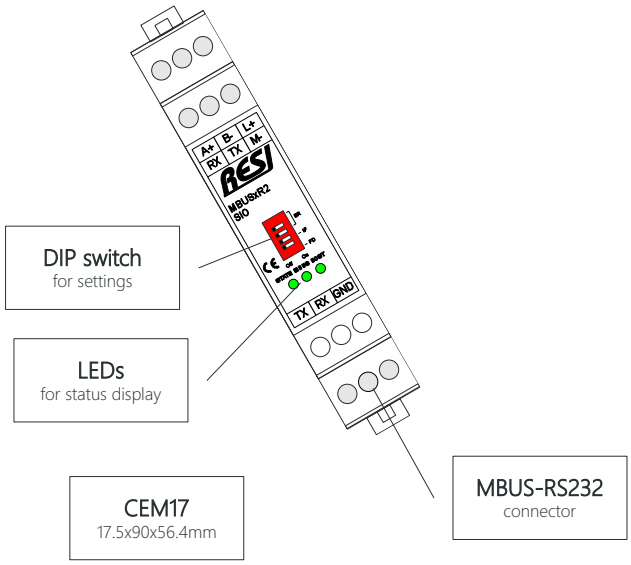


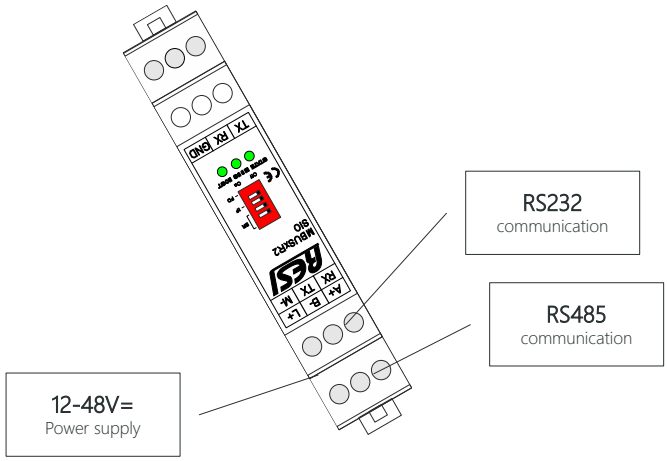
RESI-MBUS2R2-SIO	RS232 RS485	MBUS via RS232	2 Meter	40 Registers	MODBUS/RTU Slave
RESI-MBUS8R2-SIO	RS232 RS485	MBUS via RS232	8 Meter	400 Registers	MODBUS/RTU Slave
RESI-MBUS24R2-SIO	RS232 RS485	MBUS via RS232	24 Meter	1000 Registers	MODBUS/RTU Slave
RESI-MBUS48R2-SIO	RS232 RS485	MBUS via RS232	48 Meter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

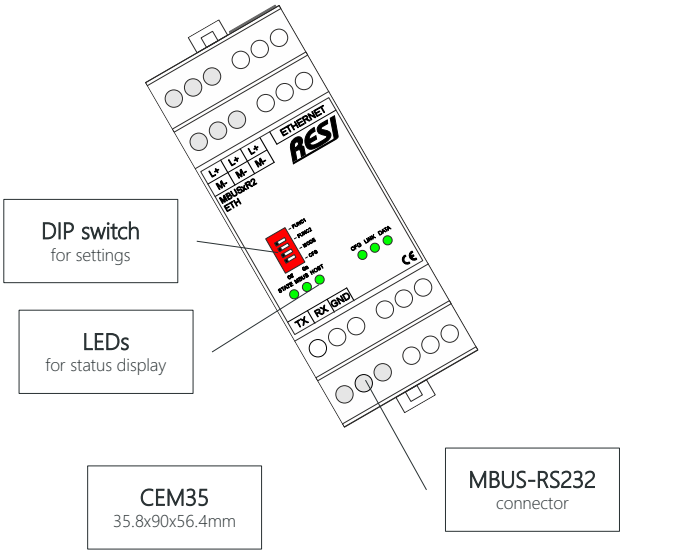
RESI-MBUS2R2-ETH	ETHERNET	MBUS via RS232	2 Meter	40 Registers	MODBUS/TCP Server
RESI-MBUS8R2-ETH	ETHERNET	MBUS via RS232	8 Meter	400 Registers	MODBUS/TCP Server
RESI-MBUS24R2-ETH	ETHERNET	MBUS via RS232	24 Meter	1000 Registers	MODBUS/TCP Server
RESI-MBUS48R2-ETH	ETHERNET	MBUS via RS232	48 Meter	1200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

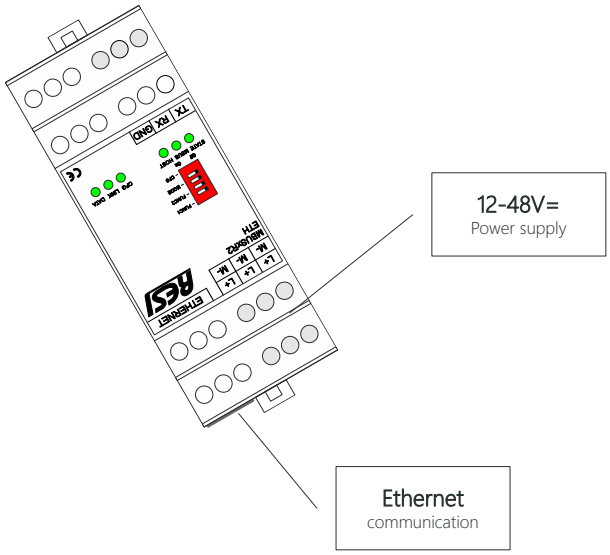
RESI-MBUSxR2-xxx

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.



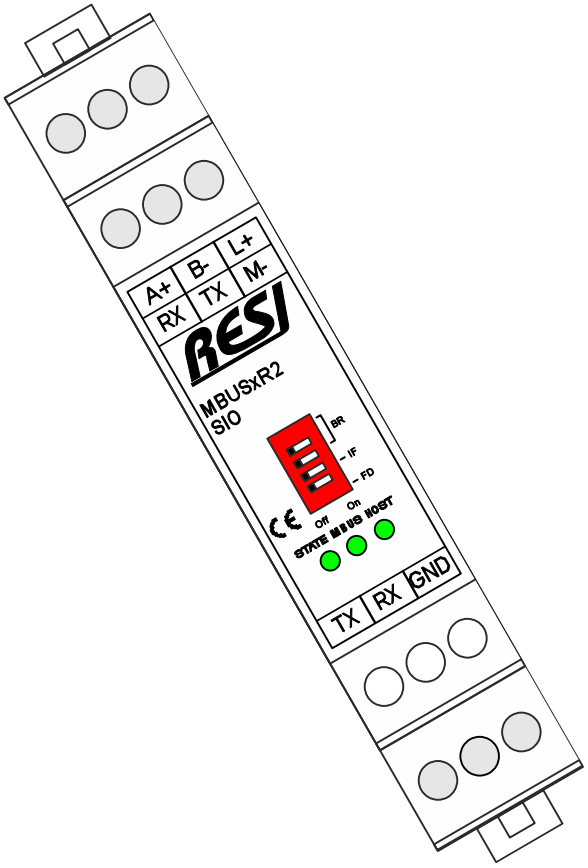


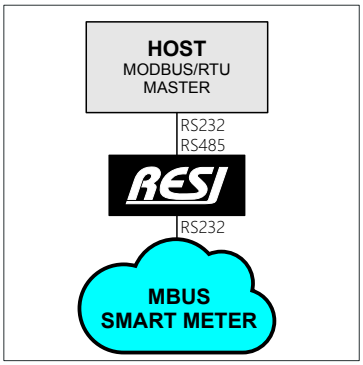




RESI-MBUSxR2-SIO

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.

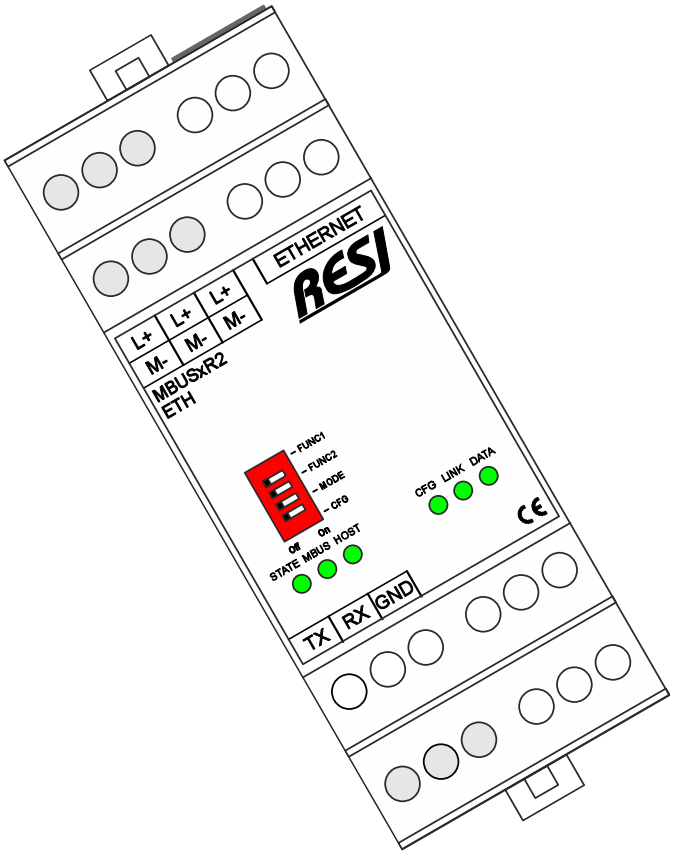


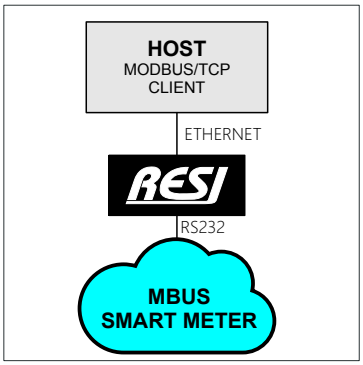


SMART METER Up to 64 smart meter connectable	**M-BUS interface** use RS232 to connect to M-BUS network	**RS232↔M-BUS** connect to existing MBUS level converter	**wired M-BUS** connect all meters via cable
Functionality Internal MBUS protocol analysis & conversion. Configurable mapping of MBUS values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

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.





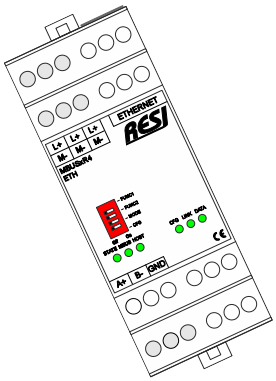
SMART METER Up to 64 smart meter connectable	**M-BUS interface** use RS232 to connect to M-BUS network	**RS232↔M-BUS** connect to existing MBUS level converter	**wired M-BUS** connect all meters via cable
Functionality Internal MBUS protocol analysis & conversion. Configurable mapping of MBUS values to MODBUS holding register. Implicit data type conversion between MBUS data and MODBUS holding registers		**Ethernet** Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet 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

M-BUS with RS485

it´s all about perfection

RESI-MBUSxR4-xxx

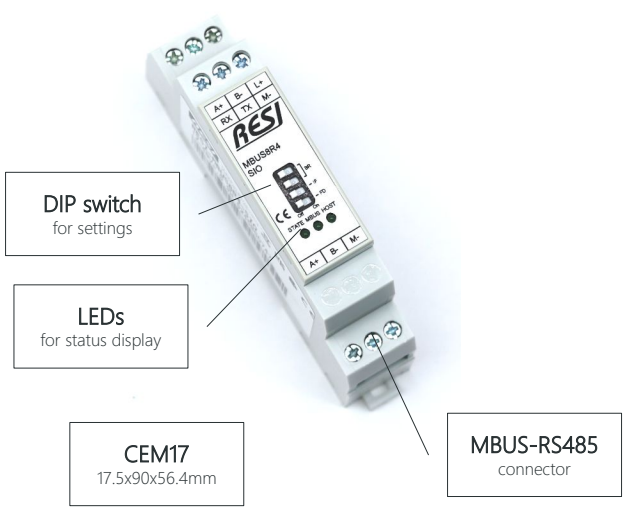
Our powerful gateways between M-BUS smart meter and MODBUS/RTU or MODBUS/TCP host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Smart meter must offer a RS485 interface for networking with M-BUS protocol. Connect water, heat, cold, gas or electricity meters with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

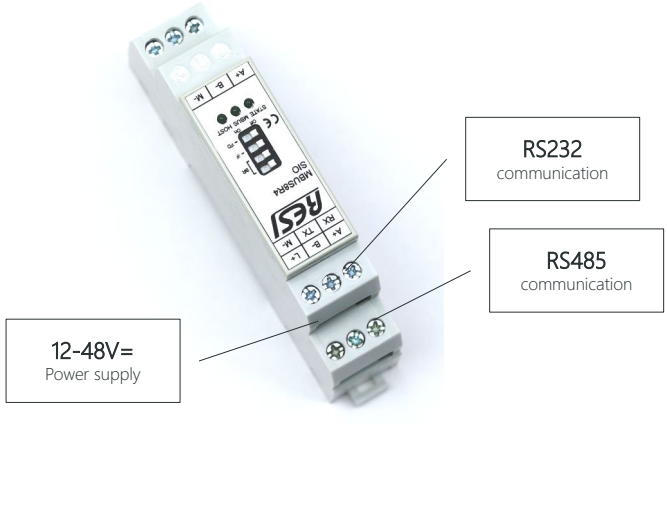


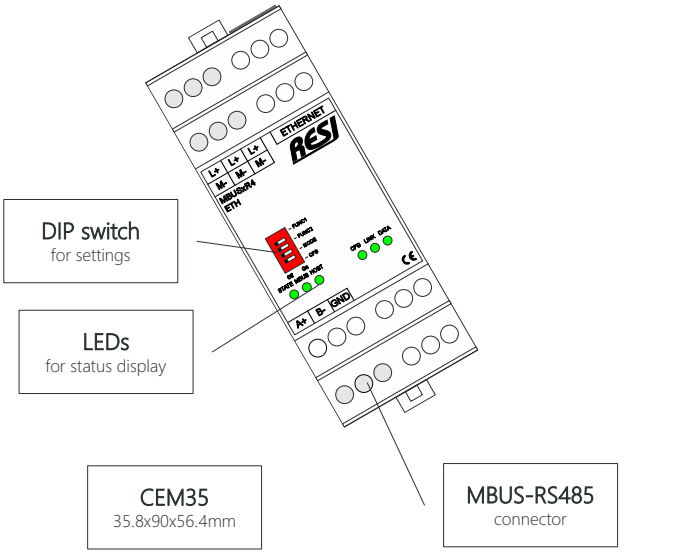
RESI-MBUS2R4-SIO	RS232 RS485	MBUS via RS485	2 Meter	40 Registers	MODBUS/RTU Slave
RESI-MBUS8R4-SIO	RS232 RS485	MBUS via RS485	8 Meter	400 Registers	MODBUS/RTU Slave
RESI-MBUS24R4-SIO	RS232 RS485	MBUS via RS485	24 Meter	1000 Registers	MODBUS/RTU Slave
RESI-MBUS48R4-SIO	RS232 RS485	MBUS via RS485	48 Meter	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

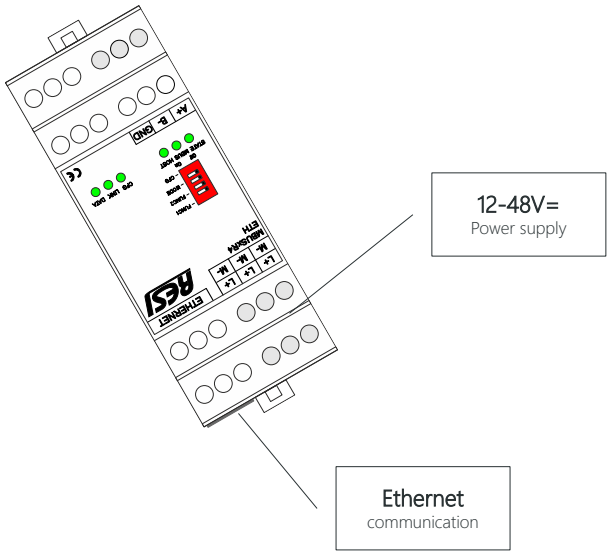
RESI-MBUSxR4-xxx

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.



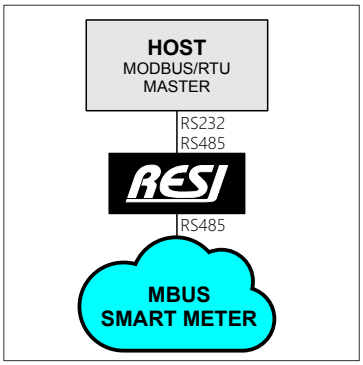






RESI-MBUSxR4-SIO

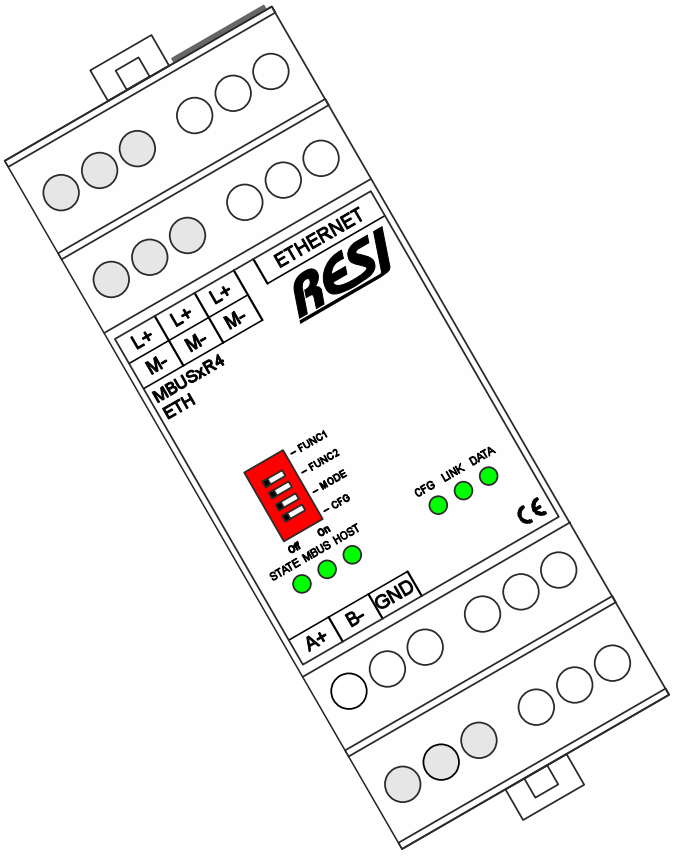
Our powerful gateways between M-BUS smart meter and MODBUS/RTU host. Read-out of smart meter data with M-BUS protocol according to EN 1434 and EN 13757. Smart meter must offer a RS485 interface for networking with M-BUS protocol. Connect water, heat, cold, gas or electricity meters with wired M-BUS interface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

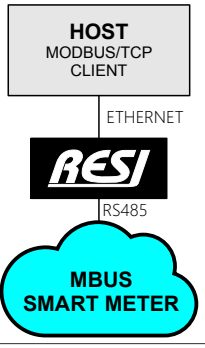


SMART METER Up to 64 smart meter connectable	**M-BUS interface** use RS485 to connect to M-BUS network	**RS485↔M-BUS** connect to existing MBUS level converter	**wired M-BUS** connect all meters via cable
Functionality Internal MBUS protocol analysis & conversion. Configurable mapping of MBUS values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

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.

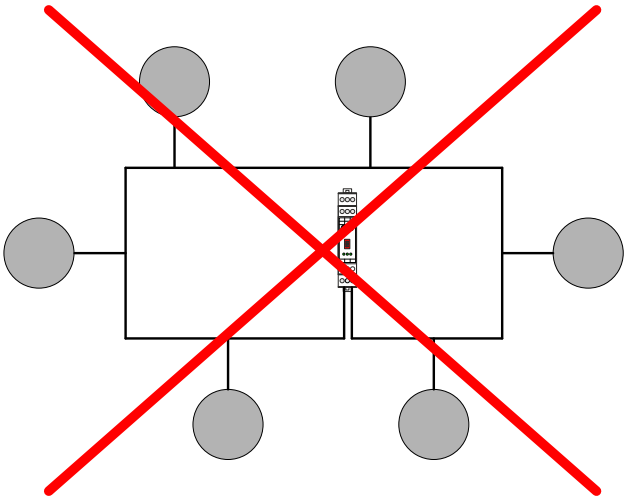


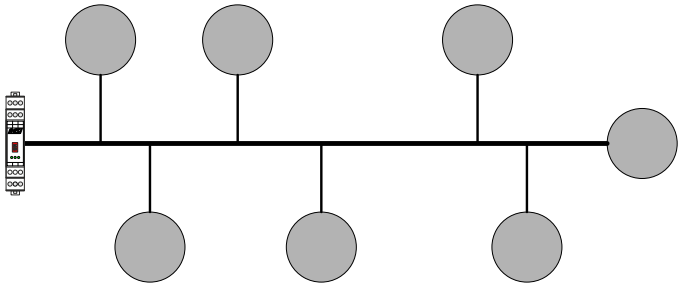


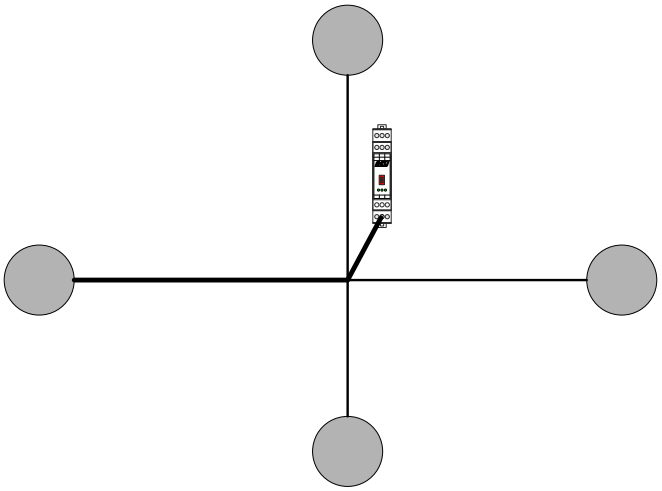
SMART METER Up to 64 smart meter connectable	**M-BUS interface** use RS485 to connect to M-BUS network	**RS485↔M-BUS** connect to existing MBUS level converter	**wired M-BUS** connect all meters via cable
Functionality Internal MBUS protocol analysis & conversion. Configurable mapping of MBUS values to MODBUS holding register. Implicit data type conversion between MBUS data and MODBUS holding registers		**Ethernet** Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet 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

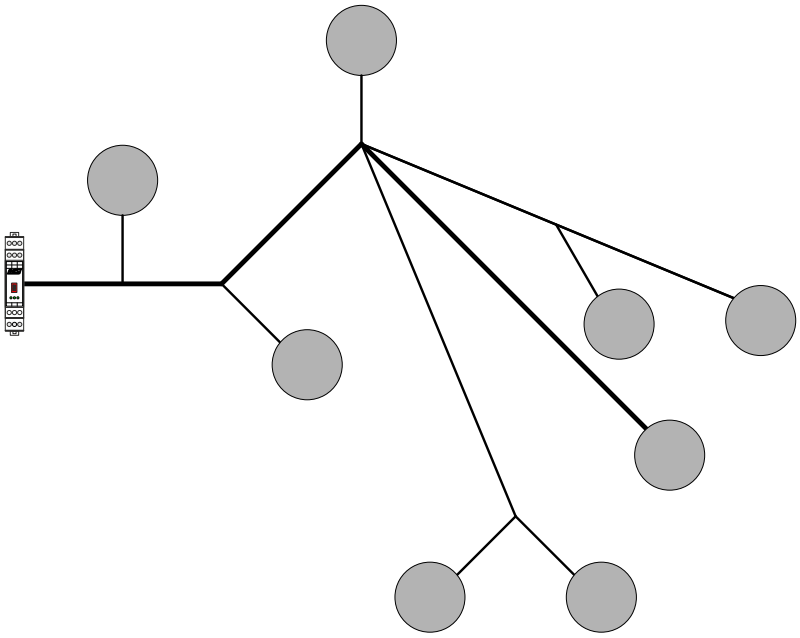
M-BUS cable topology

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!

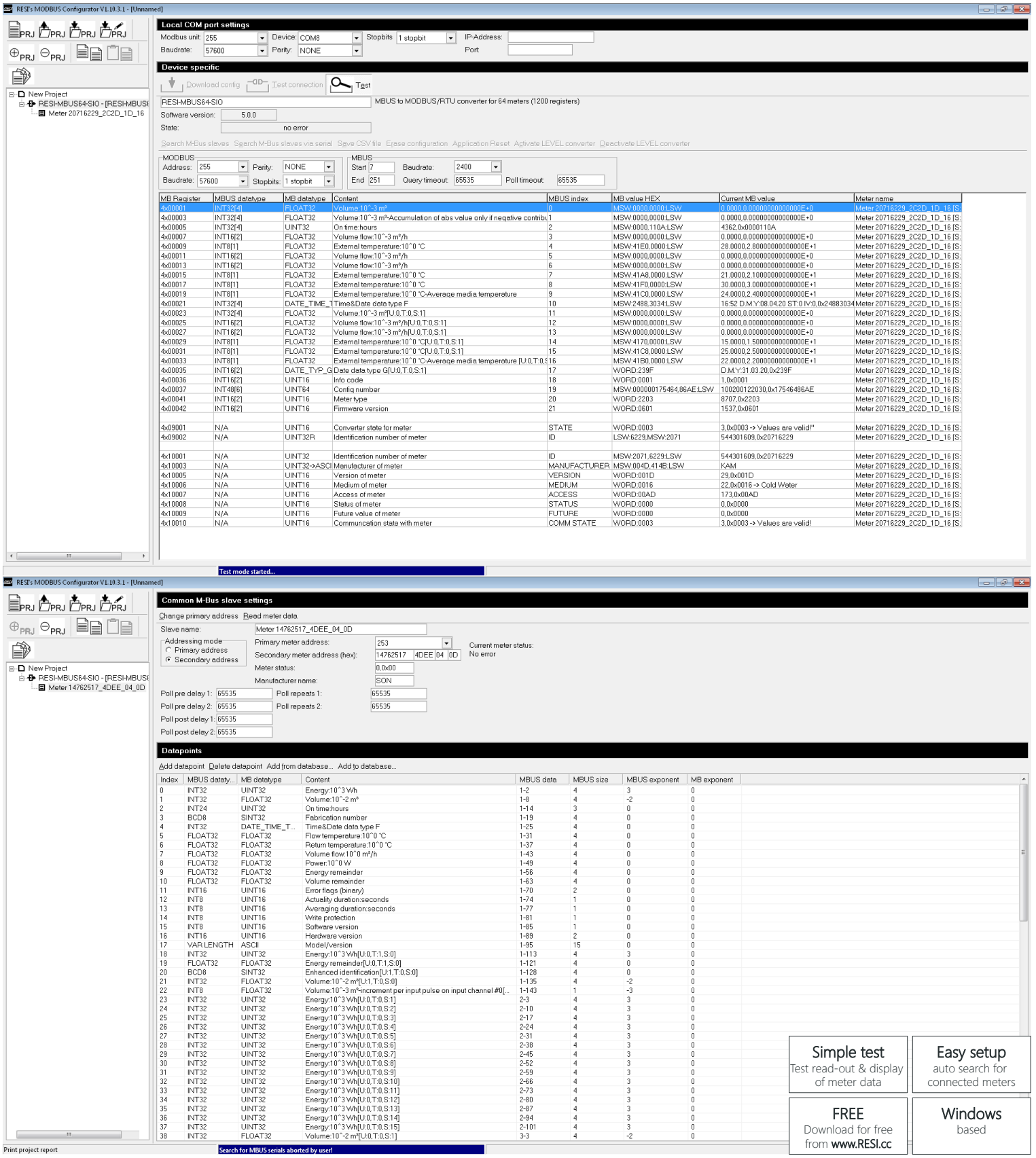








MODBUSConfigurator



DALI

it´s all about perfection

RESI-DALI-xxx

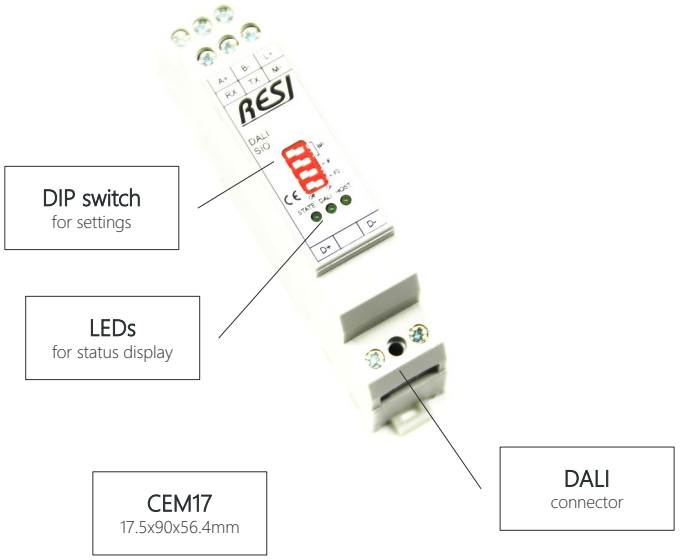
Our powerful master gateways between DALI light bus and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Communicate with DALI 1.0 ballasts or with DALI 2.0 control gears. Support of DALI device type DT8 for RGB and RGBW LED stripes. Use our RESI-DALI-PS as power supply for your DALI light 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.

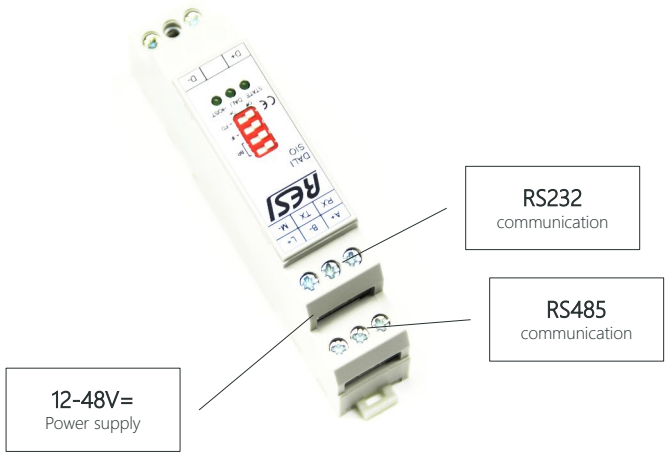
RESI-DALI-SIO	DALI Master	RS232 RS485	NO integrated DALI power supply	DALI 1.0 DALI 2.0	64 Ballasts	MODBUS/RTU Slave ASCII text protocol
RESI-DALI-ETH	DALI Master	ETHERNET	NO integrated DALI power supply	DALI 1.0 DALI 2.0	64 Ballasts	MODBUS/TCP Server ASCII text socket
RESI-DALI-PS	DALI Power supply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

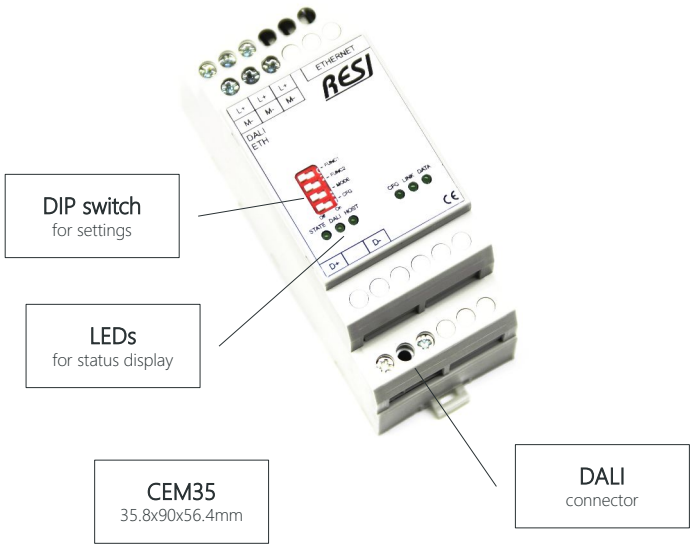
RESI-DALI+PS-SIO	DALI Master with integrated DALI power supply	RS485	Switchable DALI power supply ≤250mA	DALI 1.0 DALI 2.0	64 Ballasts	MODBUS/RTU Slave ASCII text protocol
RESI-DALI+PS-ETH	DALI Master with integrated DALI power supply	ETHERNET	Switchable DALI power supply ≤250mA	DALI 1.0 DALI 2.0	64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

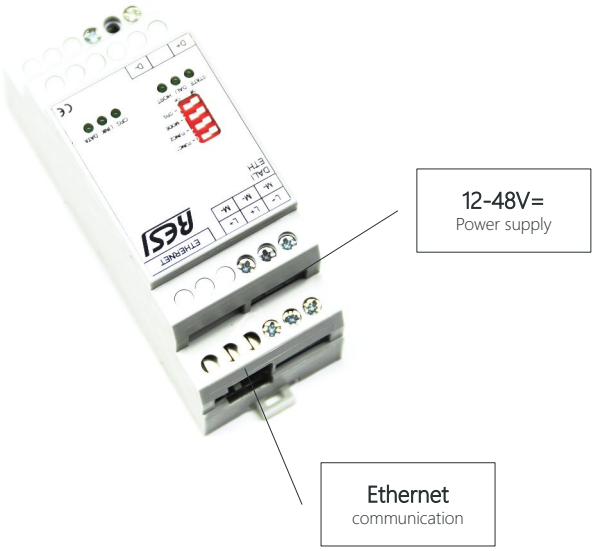
RESI-DALI-xxx

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.



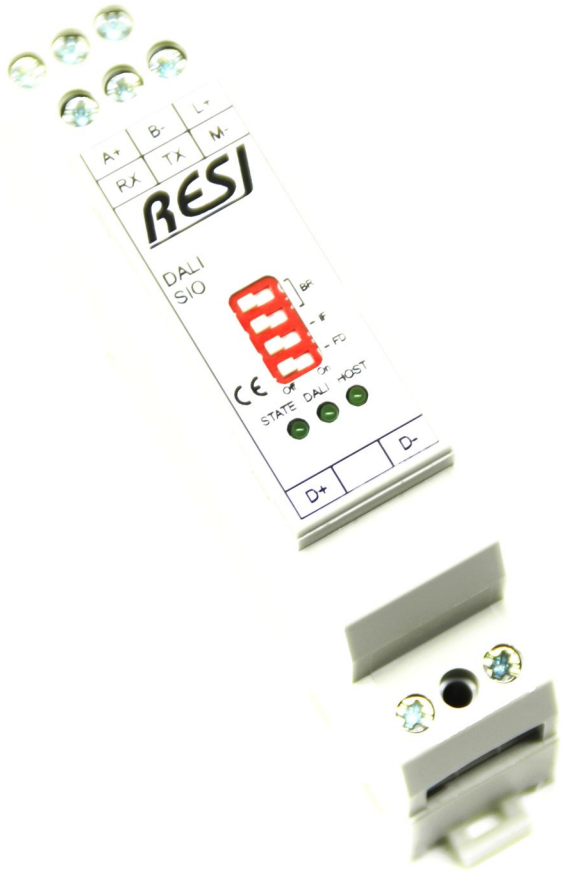


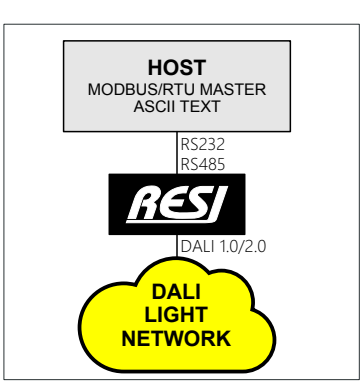




RESI-DALI-SIO

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.

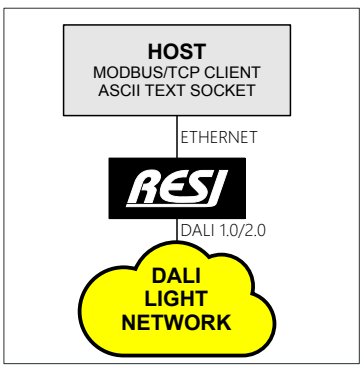




DALI 1.0/2.0 Up to 64 ballasts or control gears	**DALI CABLE** Up to 300m DALI cable length	**DALI BUS** search & initialize & test a DALI network	external **DALI** power supply necessary
Functionality DALI 1.0/2.0 master gateway to control DALI 1.0 ballasts and to communicate with DALI 2.0 control gears. Supports all DALI 1.0/2.0 commands and DALI DT6 and DT8 commands. Special support of eDALI commands.		**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-DALI-ETH

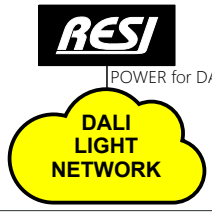
Our powerful master gateway between DALI light bus and host. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Communicate with DALI 1.0 ballasts or with DALI 2.0 control gears. Support of DALI device type DT8 for RGB and RGBW LED stripes. Configuration & test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



DALI 1.0/2.0 Up to 64 ballasts or control gears	**DALI CABLE** Up to 300m DALI cable length	**DALI BUS** search & initialize & test a DALI network	external **DALI** power supply necessary
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.		**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-DALI-PS

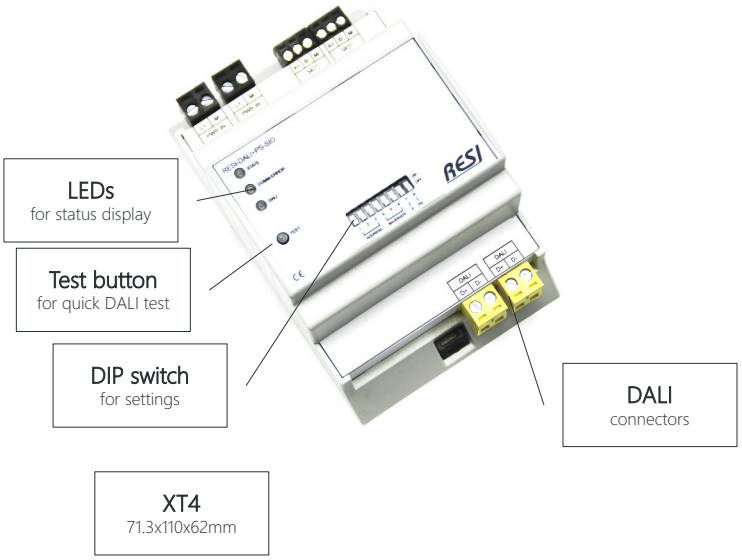
Our ultra slim DALI power supply with 200mA maximum output current on the DALI bus for connecting up to 64 DALI 1.0 ballasts or DALI 2.0 control gears. Primary power supply with 12-48Vdc.

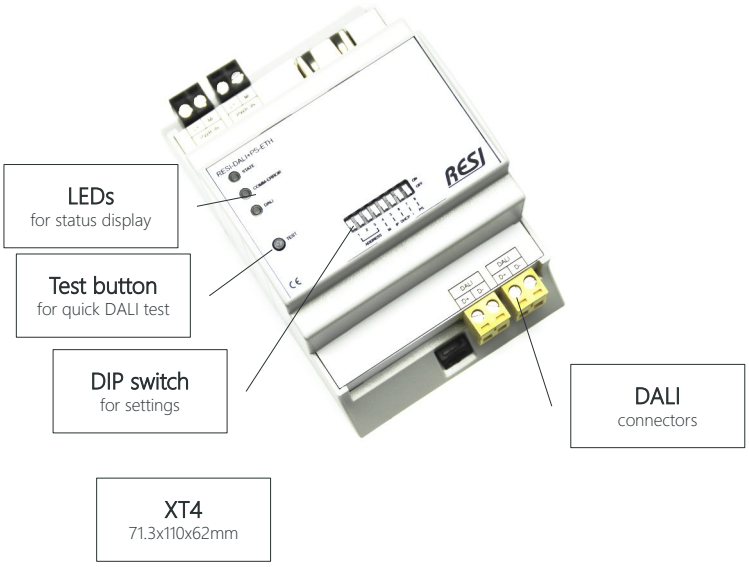


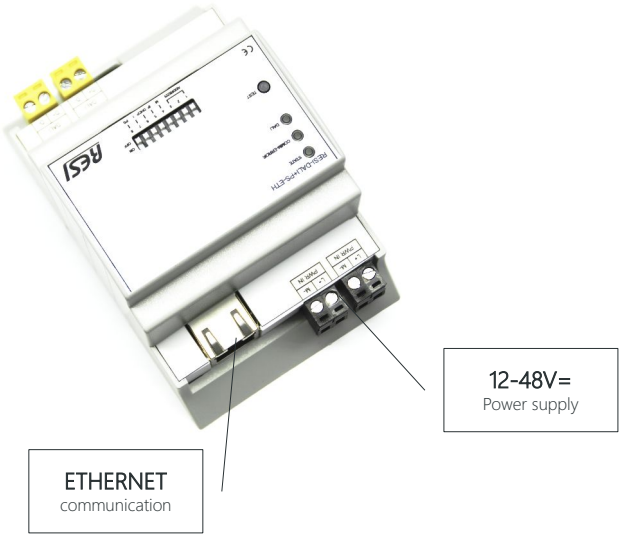
	DALI output current ≤200mA
OVERLOAD protection with ERR LED	Functionality Power supply for DALI network
DALI TRAFFIC LED	CEM17 17.5x90x56.4mm
DIN EN 50022 Snap-on for DIN-Rail	12-48V= Power supply

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.

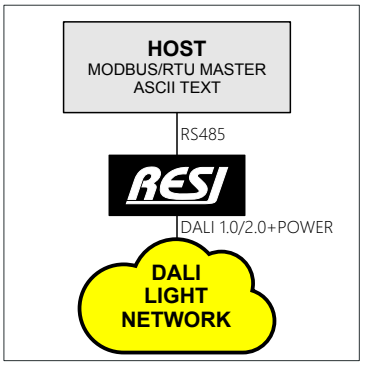






RESI-DALI+PS-SIO

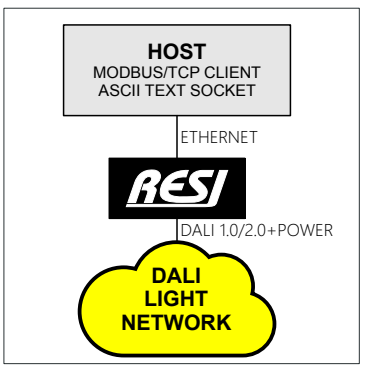
Our powerful master gateway between DALI light bus and host with integrated, switchable DALI power supply. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS485 serial interface. Integrated, switchable DALI power supply with max. 250mA DALI output current. Communicate with DALI 1.0 ballasts 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.



DALI 1.0/2.0 Up to 64 ballasts or control gears	**DALI CABLE** Up to 300m DALI cable length	**DALI BUS** search & initialize & test a DALI network	internal, switchable **DALI** power supply
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.		**Serial Interface** RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	**DALI** output current **≤250mA**
			1xRS485 MODBUS/RTU slave ASCII text protocol
MODBUSConfigurator free configuration software	**DIN EN 50022** Snap-on for DIN-Rail or **wall mounting**	**XT4** 71.3x110x62mm	**12-48V=** Power supply

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.

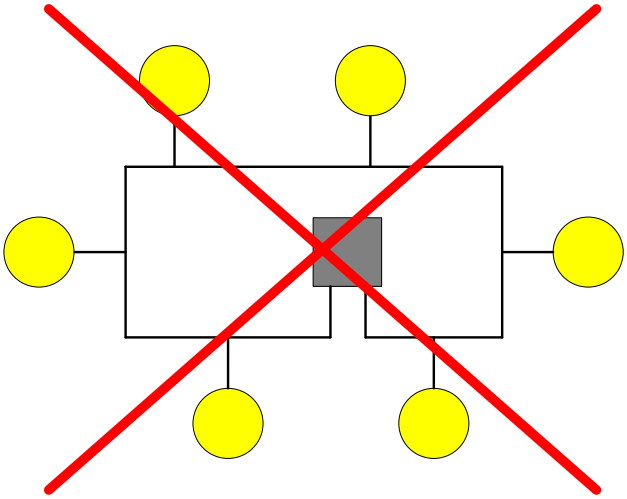


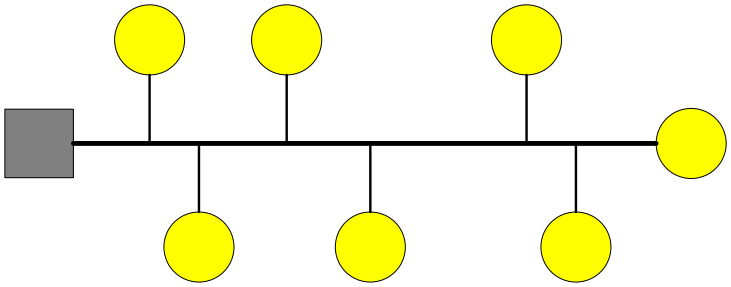
DALI 1.0/2.0 Up to 64 ballasts or control gears	**DALI CABLE** Up to 300m DALI cable length	**DALI BUS** search & initialize & test a DALI network	internal, switchable **DALI** power supply
Functionality DALI 1.0/2.0 master gateway to control DALI 1.0 ballasts and to communicate with DALI 2.0 control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

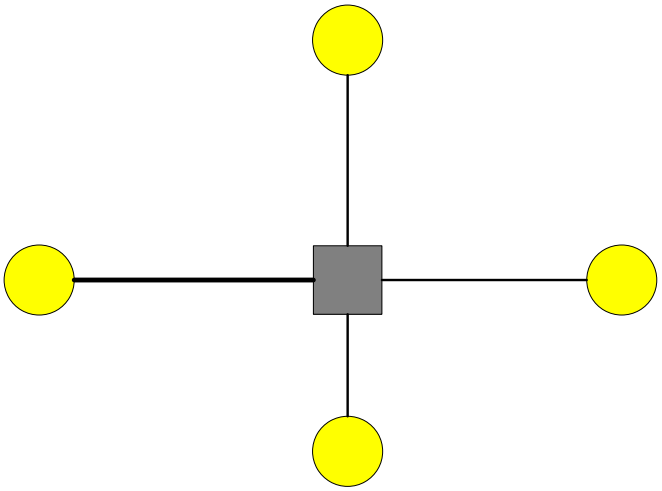
MODBUSConfigurator

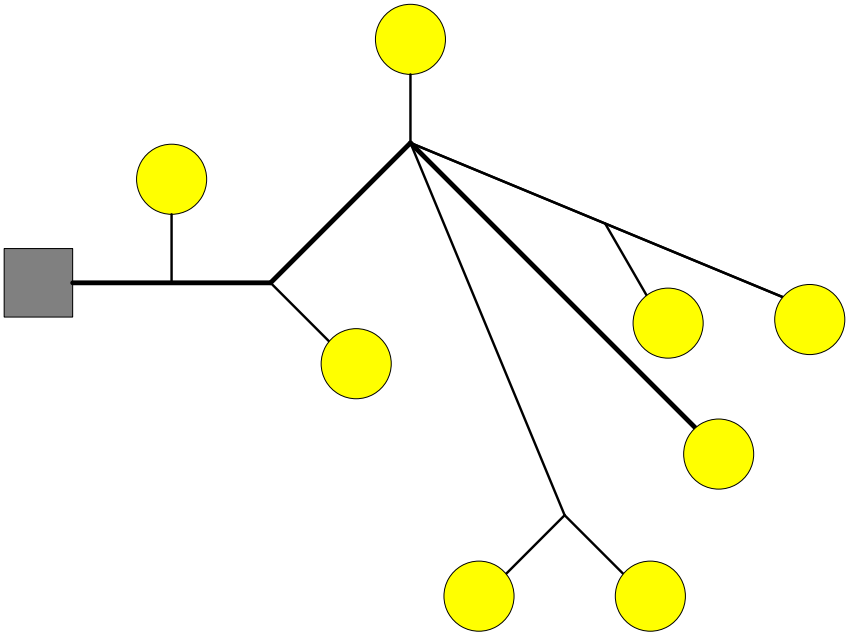
DALI cable topology

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

it´s all about perfection

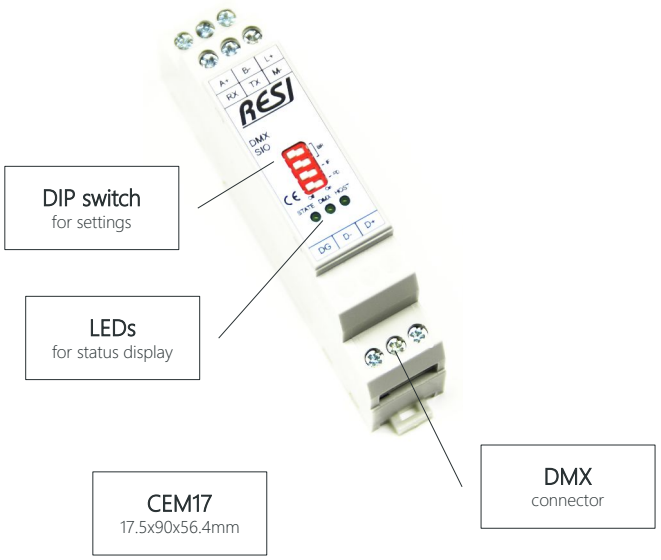
RESI-DMX-xxx

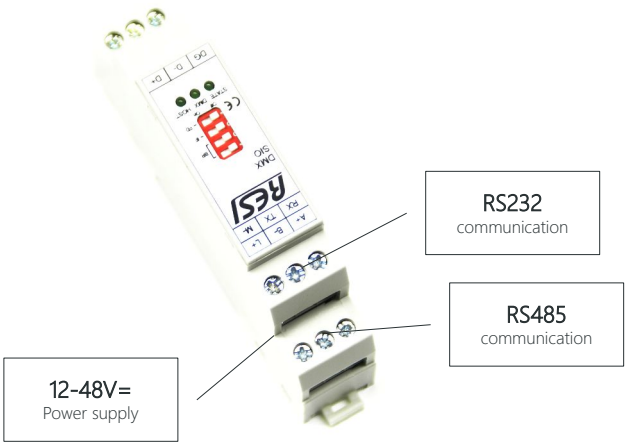
Our powerful master gateways between DMX light bus and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. DMX master communication with DMX lamps in one DMX universe. Configurable time between two DMX frames.

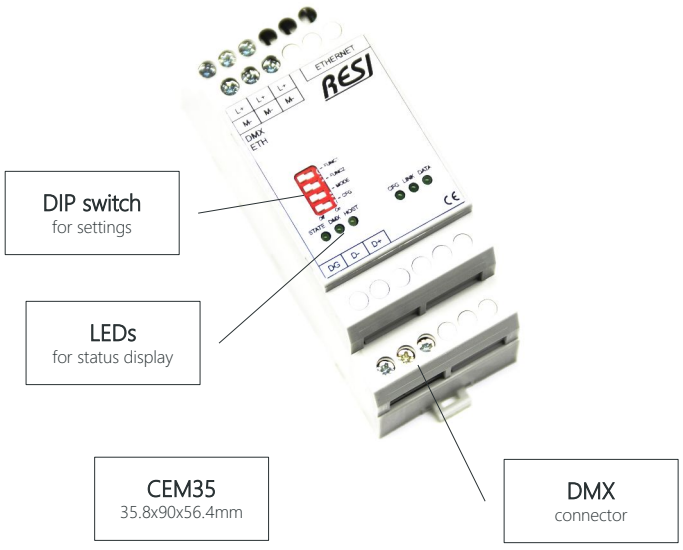
RESI-DMX-SIO	DMX Master	RS232 RS485	DMX512	30ms..60s configurable DMX frame repeat speed	512 DMX register	MODBUS/RTU Slave ASCII text protocol
RESI-DMX-ETH	DMX Master	ETHERNET	DMX512	30ms..60s configurable DMX frame repeat speed	512 DMX register	MODBUS/TCP Server ASCII text socket

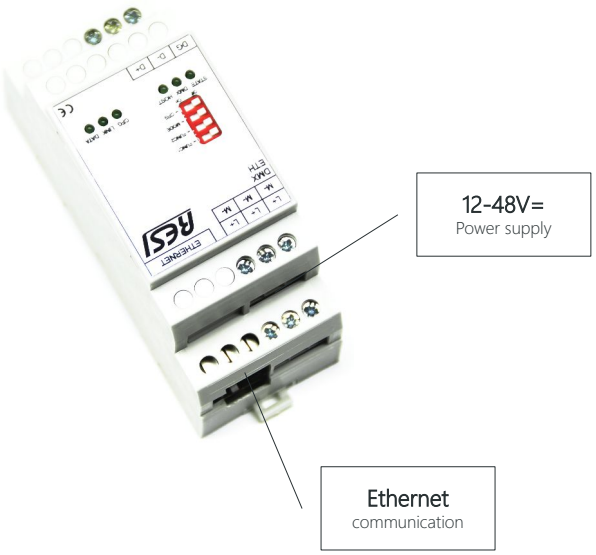
RESI-DMX-xxx

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.



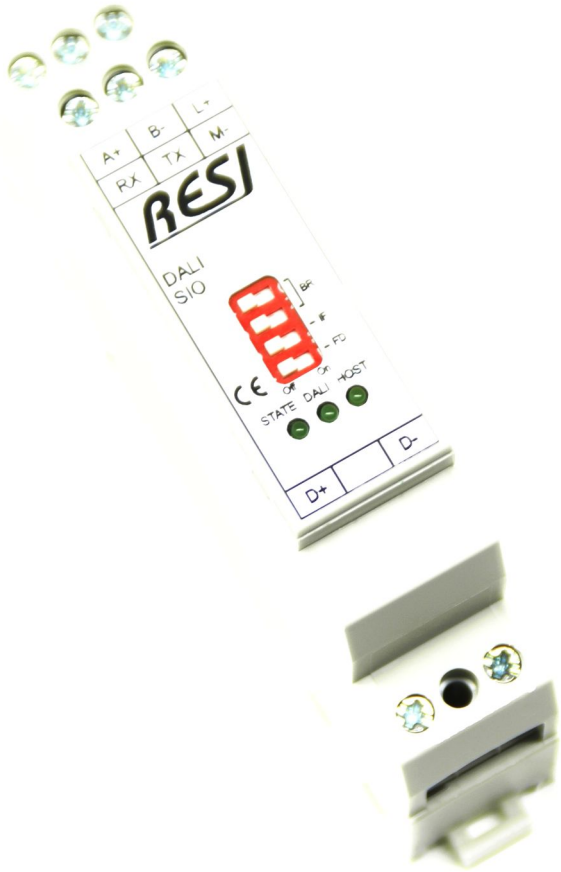


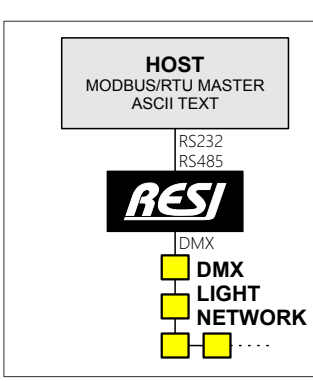




RESI-DMX-SIO

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.

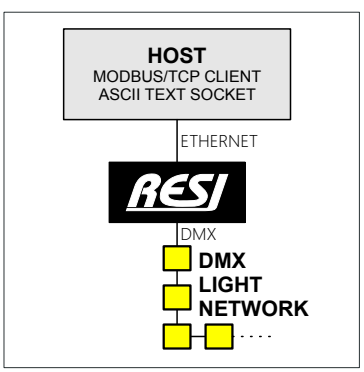




DMX pause Adjustable DMX pause between 2 DMX frames	**DMX frame** Configurable DMX frame length	**DMX** Support of 512 DMX register	**DMX512** unidirectional master protocol
Functionality MODBUS to DMX master to control a DMX light system in one DMX universe with max. 512 DMX register. Unidirectional DMX master with adjustable DMX frame repeat time.		**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

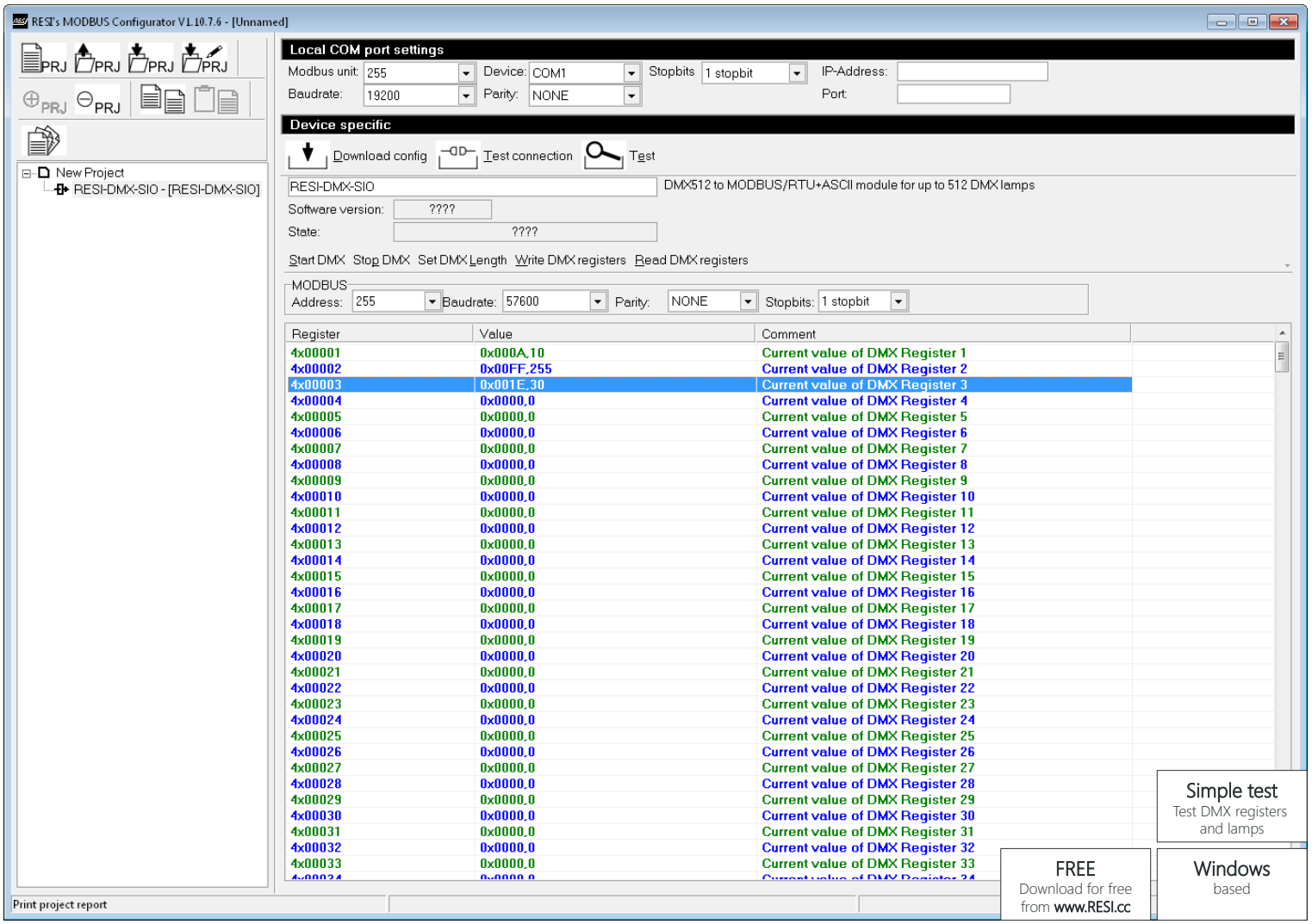
RESI-DMX-ETH

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 **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

MODBUSConfigurator



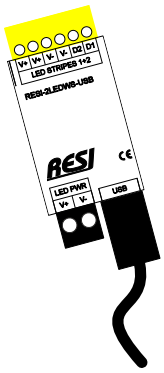
LED STRIPES

it´s all about perfection

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.

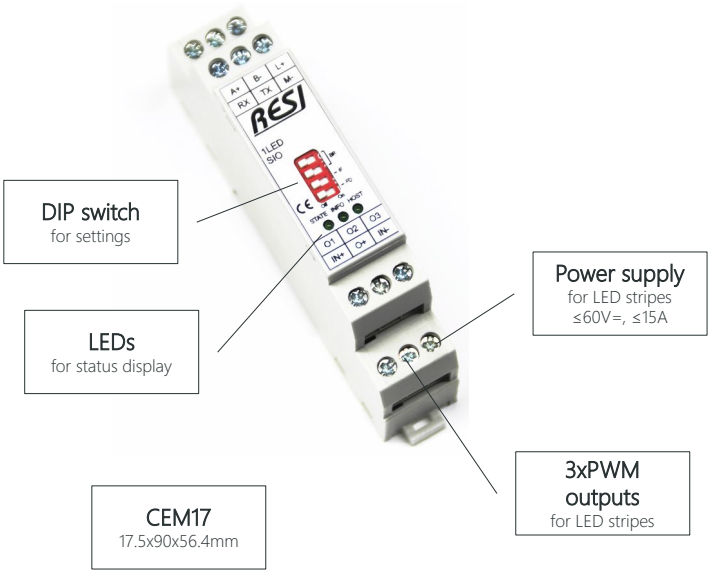
RESI-1LED-SIO	LED STRIPE Master	RS232 RS485	LED STRIPEs constant voltage common anode	LED STRIPE types RGB, dual white mono colour	3xPWM ≤60V=,≤5A/channel	MODBUS/RTU Slave ASCII text protocol
RESI-1LED-ETH	LED STRIPE Master	ETHERNET	LED STRIPEs constant voltage common anode	LED STRIPE types RGB, dual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

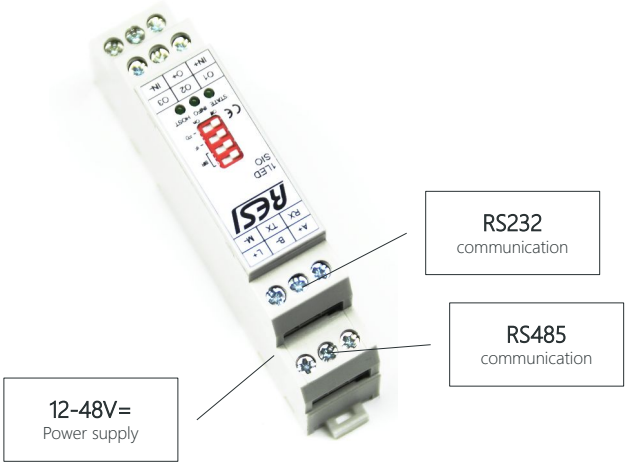


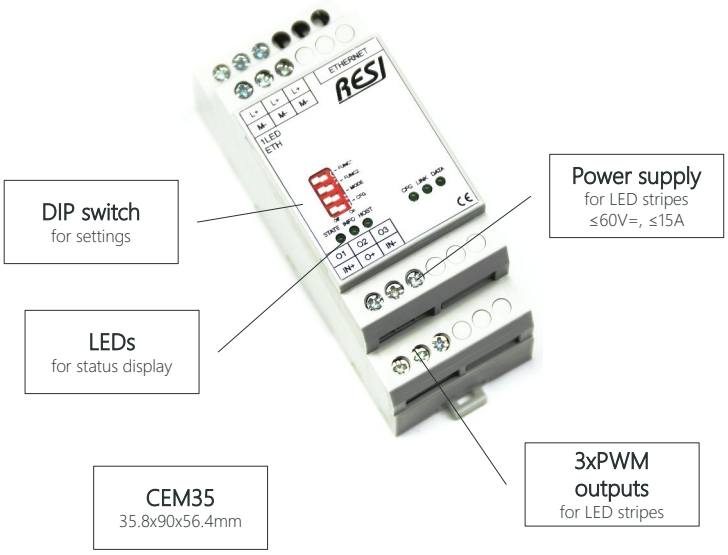
RESI-2LEDWS-SIO	WS28xx LED STRIPE Master	RS232 RS485	WS28xx LEDs each LED individually addressable	LED types WS2812 +5V WS2815 +12V	2 independent channels max 512 LEDs/channel	MODBUS/RTU Slave ASCII text protocol
RESI-2LEDWS-ETH	WS28xx LED STRIPE Master	ETHERNET	WS28xx LEDs each LED individually addressable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

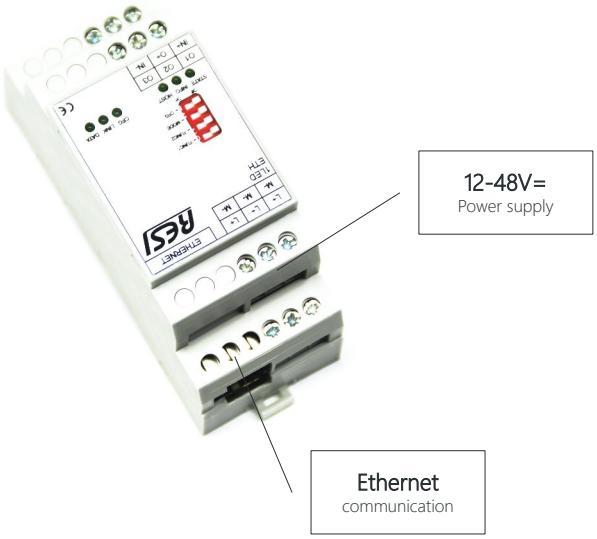
RESI-xLED-xxx

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.



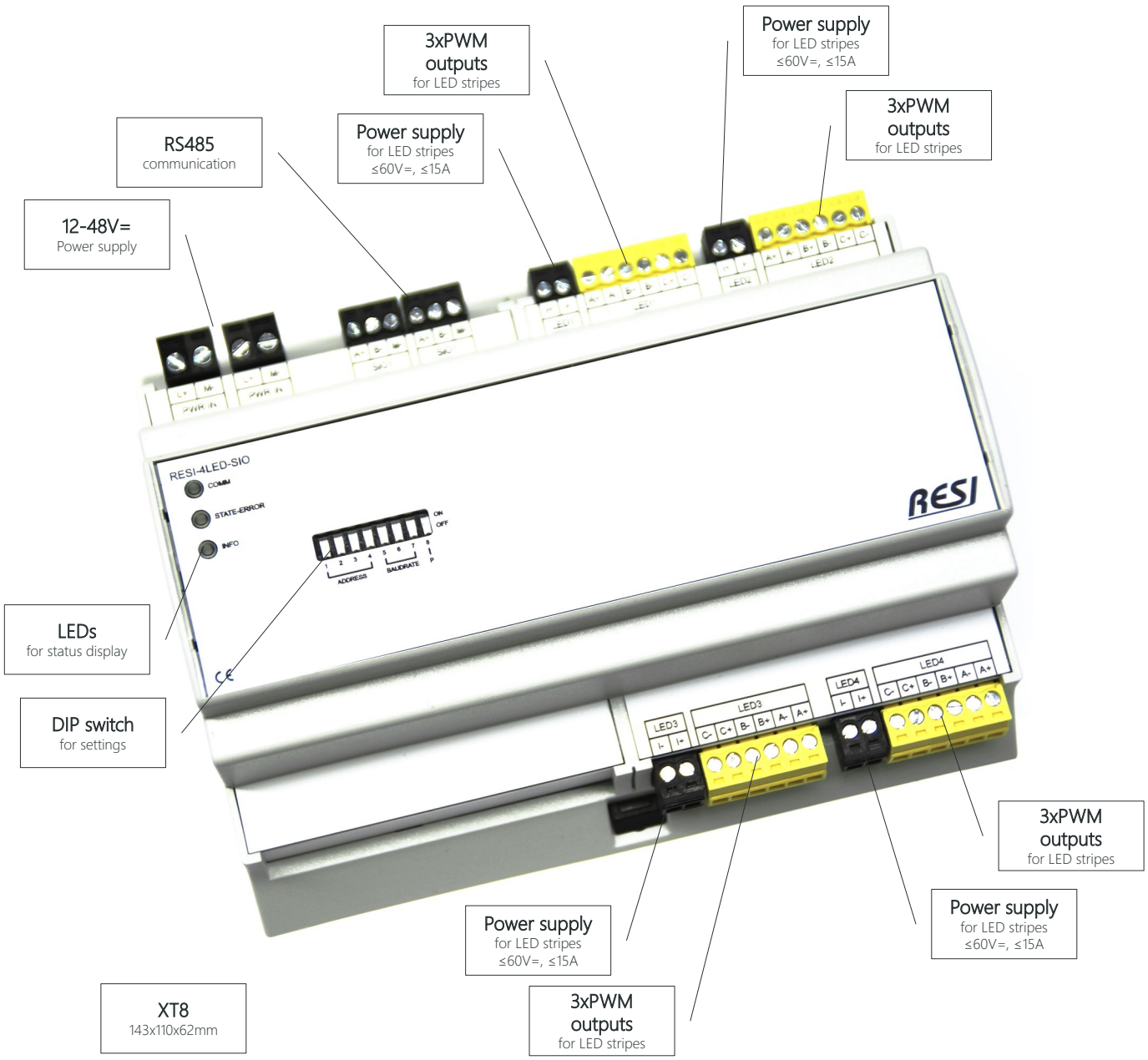






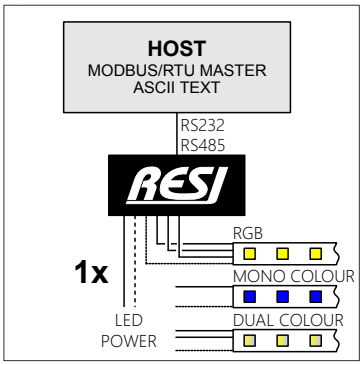
RESI-xLED-xxx

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	LED stripe type	3xPWM outputs	Power supply
gateway	constant voltage common anode	≤60V=, ≤5A/channel	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

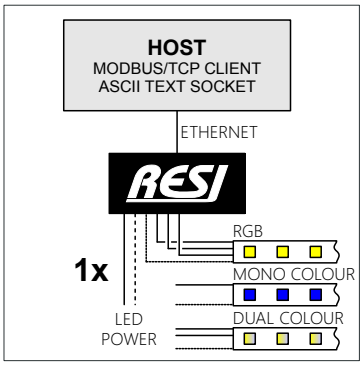
1xRS232
MODBUS/RTU slave
ASCII text protocol

1xRS485
MODBUS/RTU slave
ASCII text protocol

MODBUSConfigurator	DIN EN 50022	CEM17	12-48V=
free configuration software	Snap-on for DIN-Rail	17.5x90x56.4mm	Power supply

RESI-1LED-ETH

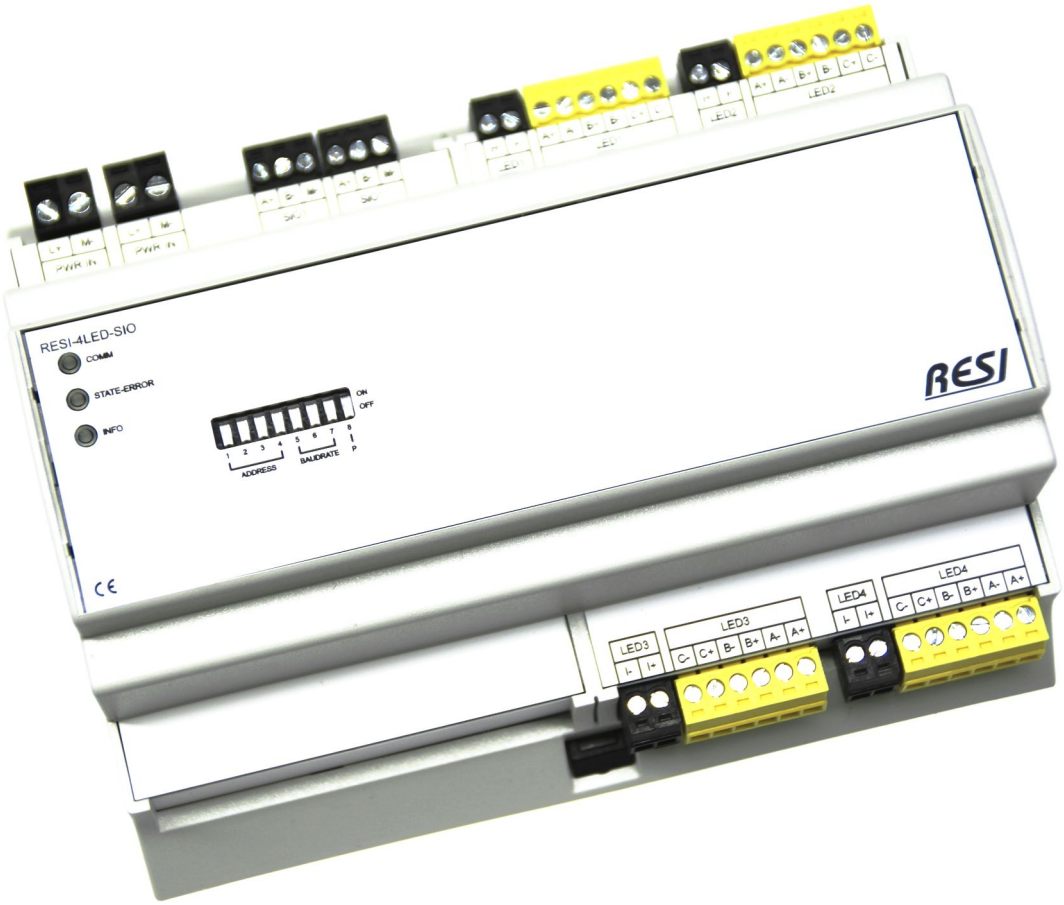
Our powerful master gateway for LED stripes is designed to connect LED stripes directly to the gateway. The gateway is made for constant voltage LED stripes with common anode. The brightness control for every channel is done via PWM output. Host protocols: MODBUS/TCP or ASCII text socket. Host connection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

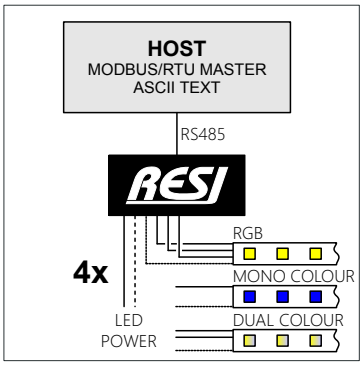


LED stripe gateway	**LED stripe type** constant voltage common anode	**3xPWM outputs** ≤60V=, ≤5A/channel	**Power supply** for LEDs ≤60V=, ≤15A
Functionality MODBUS master for LED stripes. Individual control of three PWM channels. LED stripe types: RGB, dual or mono colour External power supply for LED 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.

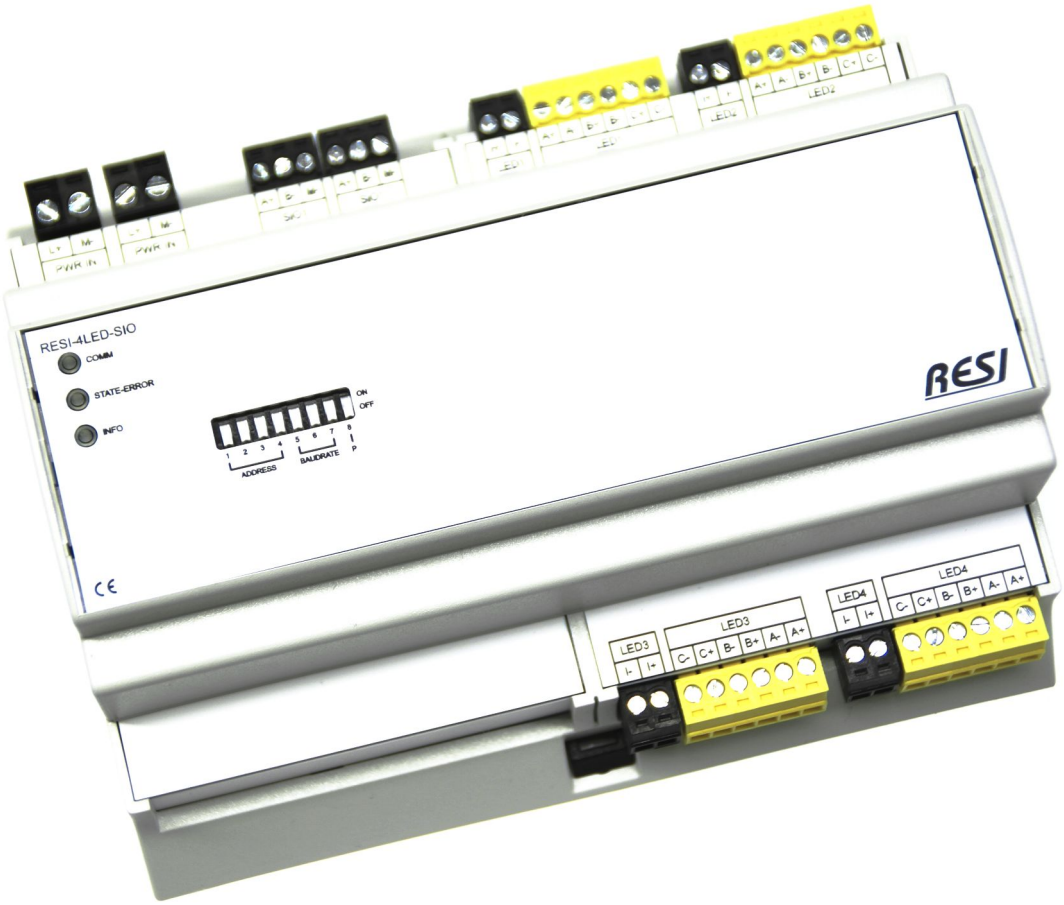


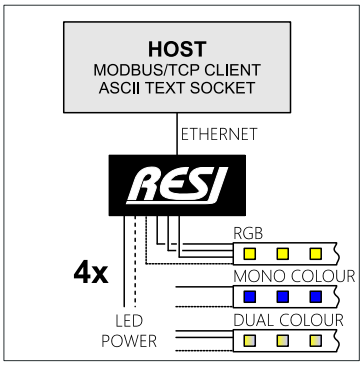


LED stripe gateway	**LED stripe type** constant voltage common anode	**12xPWM outputs** ≤60V=, ≤5A/channel	**4xpower supply** for LEDs ≤60V=, ≤15A
Functionality MODBUS master for LED stripes. Individual control of twelve PWM channels. LED stripe types: RGB, dual or mono colour External power supply for 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	LED stripe type	12xPWM outputs	4xpower supply
gateway	constant voltage common anode	≤60V=, ≤5A/channel	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

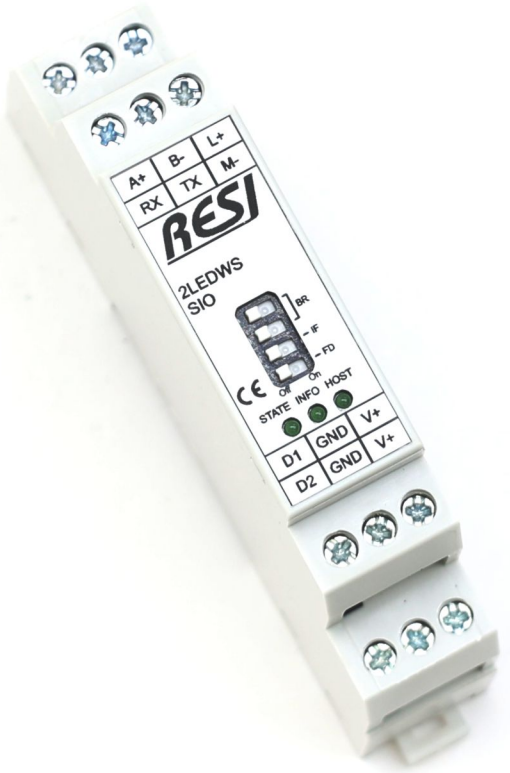
1xETHERNET
10/100MBit
RJ45

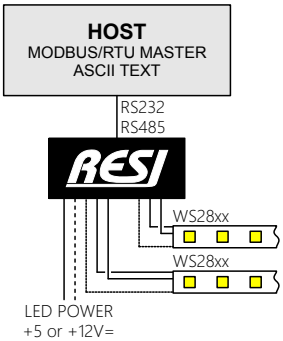
XT8
143x110x62mm

MODBUSConfigurator	DIN EN 50022	WALL MOUNTING	12-48V=
free configuration software	Snap-on for DIN-Rail	option	Power supply

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.

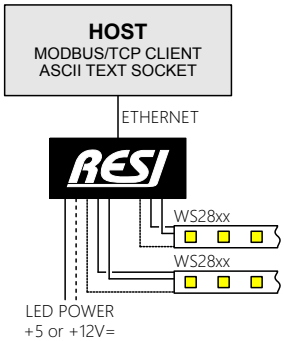




WS28xx LEDs 2-channel LED stripe gateway	**LED types** WS2812 +5V= WS2815 +12V=	**2xLED stripes** two individual data channels	**Power supply** for LEDs 5V= or 12V=
Functionality MODBUS master for two LED stripes with WS28xx LEDs. Individual control of all LEDs with different RGB values. Various ready-made LED effects. External power supply for LEDs: WS2812 5V= WS2815 12V=		**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-2LEDWS-ETH

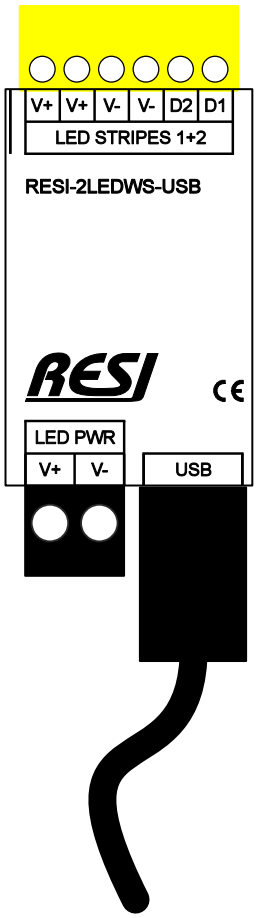
Our powerful master gateway for LED stripes based on the addressable WS28xx LEDs is designed to connect two LED stripes with max. 512 LEDs per stripe directly to the gateway. External power supply for the LED stripes necessary: WS2812 or WS2812B +5Vdc or WS2815 +12Vdc. Every LED on the stripes can be 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.

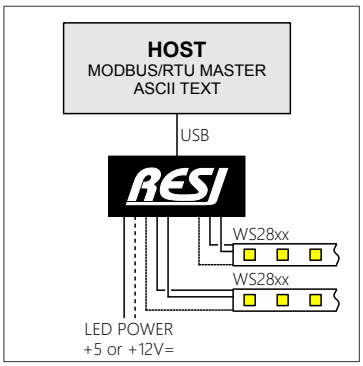


WS28xx LEDs 2-channel LED stripe gateway	**LED types** WS2812 +5V= WS2815 +12V=	**2xLED stripes** two individual data channels	**Power supply** for LEDs 5V= or 12V=
Functionality MODBUS master for two LED stripes with WS28xx LEDs. Individual control of all LEDs with different RGB values. Various ready-made LED effects. External power supply for LEDs: WS2812 5V= WS2815 12V=		**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-2LEDWS-USB

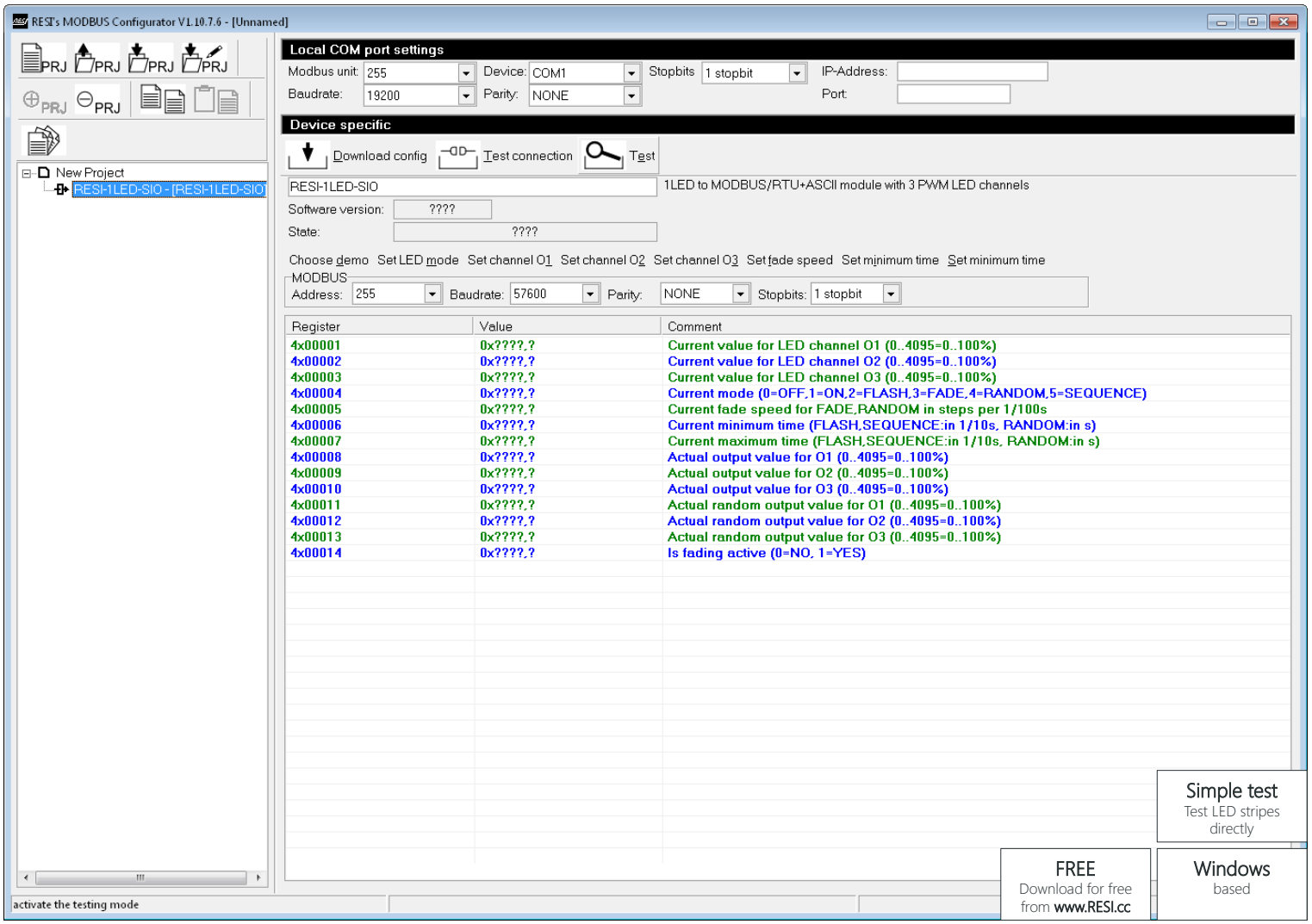
Our powerful master gateway for LED stripes based on the addressable WS28xx LEDs is designed to connect two LED stripes with max. 512 LEDs per stripe directly to the gateway. External power supply for the LED stripes necessary: WS2812 or WS2812B +5Vdc or WS2815 +12Vdc. Every LED on the stripes can be 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.





WS28xx LEDs 2-channel LED stripe gateway	**LED types** WS2812 +5V= WS2815 +12V=	**2xLED stripes** two individual data channels	**Power supply** for LEDs 5V= or 12V=
Functionality MODBUS master for two LED stripes with WS28xx LEDs. Individual control of all LEDs with different RGB values. Various ready-made LED effects. External power supply for LEDs: WS2812 5V= WS2815 12V=		**Serial Interface** virtual via USB Chipset: STM32	**USB** USB 1.1 or USB 2.0 connection **VIRTUAL SERIAL** MODBUS/RTU slave ASCII text protocol
MODBUSConfigurator free configuration software	**DIN EN 50022** Snap-on for DIN-Rail	**BOX** 60x25x25mm	**12-48V=** Power supply

MODBUSConfigurator



KNX

it´s all about perfection

RESI-KNX-xxx

Our powerful master gateway between KNX bus and host. Host protocols: MODBUS/RTU, MODUS/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. Additionaly 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

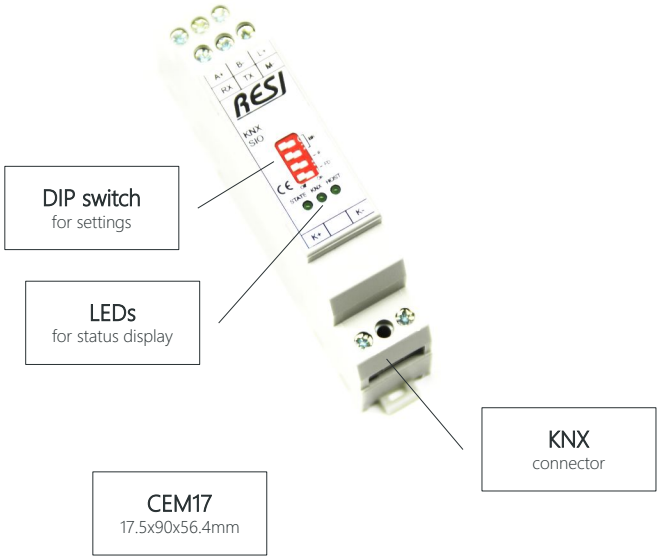
Our powerful MODBUS/RTU master gateway to exchange data between MODBUS/RTU slave devices and KNX bus devices. Bidirectional communication with MODBUS/RTU devices via RS232 or RS485 serial interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between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

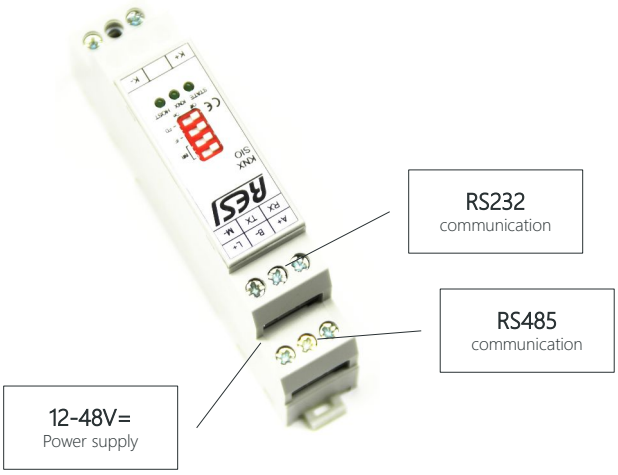
RESI-KNX-MBMASTER	KNX MODBUS/RTU Master	RS232 RS485	NO integrated KNX power supply	KNX	65.536 KNX group addresses	MODBUS/RTU Master protocol

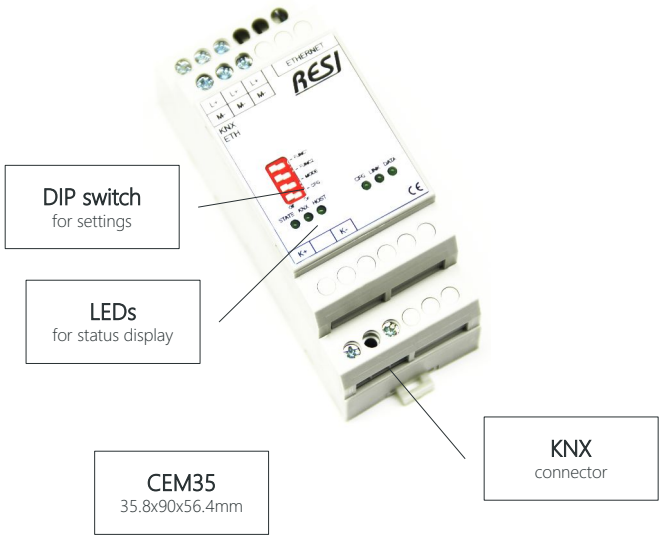
RESI-KNX+PS-SIO	KNX Master with integrated KNX power supply	RS485	Switchable KNX power supply ≤160mA	KNX	65.536 KNX group addresses	MODBUS/RTU Slave ASCII text protocol
RESI-KNX+PS-ETH	KNX Master with integrated KNX power supply	ETHERNET	Switchable KNX power supply ≤160mA	KNX	65.536 KNX group addresses	MODBUS/TCP Server ASCII text socket

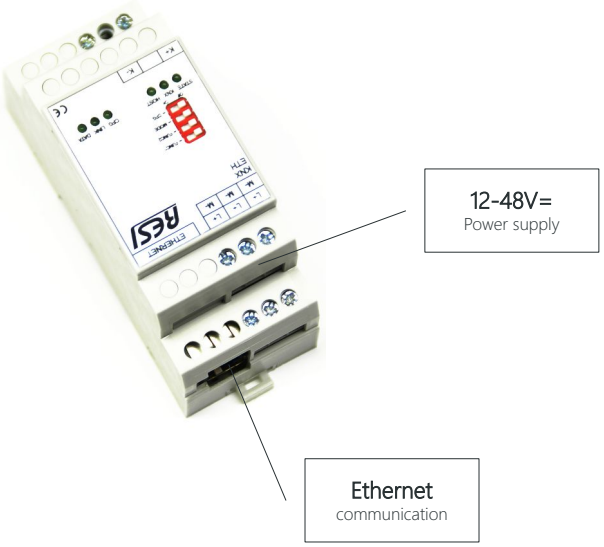
RESI-KNX-xxx

Our powerful master gateway between KNX bus and host. Host protocols: MODBUS/RTU, MODUS/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. Additionaly we offer a very slim KNX power supply.



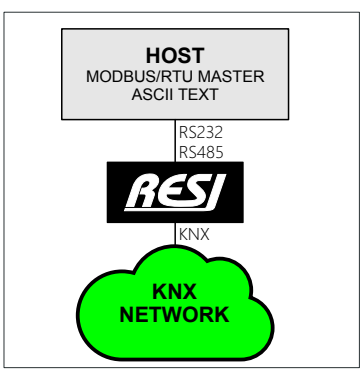






RESI-KNX-SIO

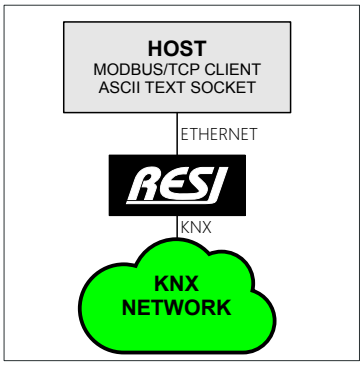
Our powerful master gateway between KNX bus and host. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free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



KNX↔MODBUS bidirectional gateway	**KNX** 65.536 group addresses supported	**MODBUS** all common data types supported	external **KNX** power supply necessary
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.		**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-KNX-ETH

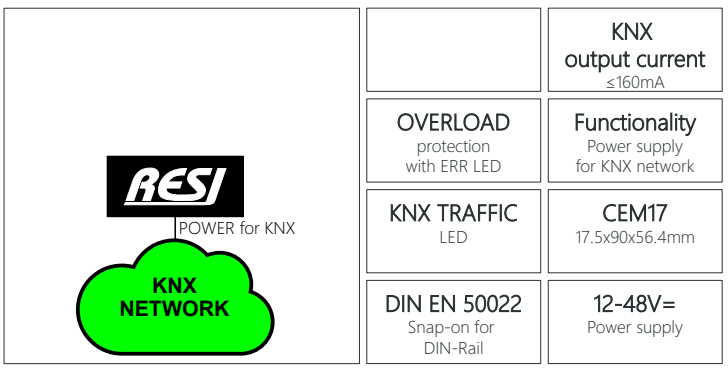
Our powerful master gateway between KNX bus and host. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between KNX bus and MODBUS registers with our free software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



KNX↔MODBUS bidirectional gateway	**KNX** 65.536 group addresses supported	**MODBUS** all common data types supported	external **KNX** power supply necessary
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.		**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

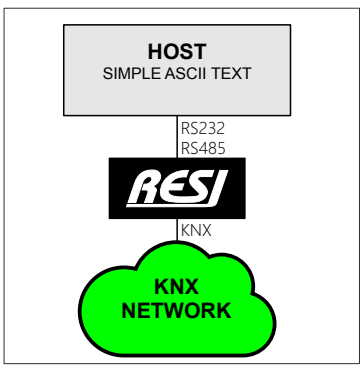
RESI-KNX-PS

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.



RESI-KNX-GW

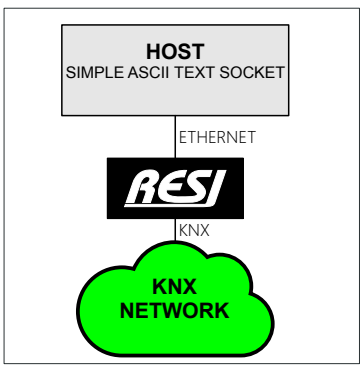
Our powerful master gateway between KNX bus and media control host like PC, AMX©, Crestron© or Control4©. Host protocols: Simple ASCII text strings. Host communication via RS232 or RS485 serial interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Configuration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



KNX↔ASCII bidirectional gateway	**KNX** 65.536 group addresses supported	**ASCII** simple text strings for KNX send/receive	external **KNX** power supply necessary
Functionality Bidirectional gateway between media control host and KNX devices using simple text strings. Simple configuration of KNX group addresses and data types with text strings.		**Serial Interface** RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	**1xRS232** ASCII text protocol **1xRS485** ASCII text protocol
MediaControl ready use with PC, AMX©, Crestron© or Control4©	**DIN EN 50022** Snap-on for DIN-Rail	**CEM17** 17.5x90x56.4mm	**12-48V=** Power supply

RESI-KNXGW-ETH

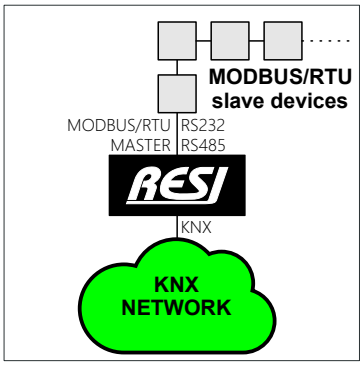
Our powerful master gateway between KNX bus and media control host like PC, AMX©, Crestron© or Control4©. Host protocols: Simple ASCII text strings via TCP/IP socket. Host communication via Ethernet interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Configuration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



KNX↔ASCII bidirectional gateway	**KNX** 65.536 group addresses supported	**ASCII** simple text strings for KNX send/receive	external **KNX** power supply necessary
Functionality Bidirectional gateway between media control host and KNX devices using simple text strings. Simple configuration of KNX group addresses and data types with text strings.		**Ethernet** Web Server for IP V4 setup ASCII text socket protocol	**1xETHERNET** 10/100MBit RJ45 **IP settings** DHCP or static IPV4 settings
MediaControl ready use with PC, AMX©, Crestron© or Control4©	**DIN EN 50022** Snap-on for DIN-Rail	**CEM35** 35.8x90x56.4mm	**12-48V=** Power supply

RESI-KNX-MBMASTER

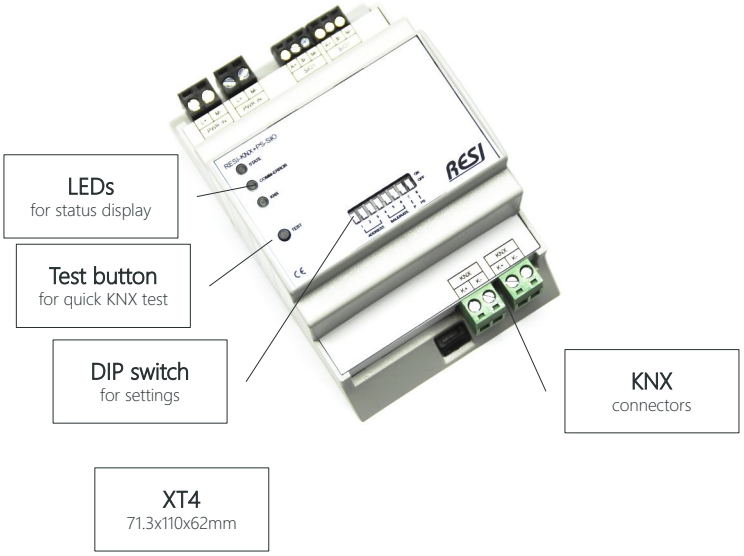
Our powerful MODBUS/RTU master gateway to exchange data between MODBUS/RTU slave devices and KNX bus devices. Bidirectional communication with MODBUS/RTU devices via RS232 or RS485 serial interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between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

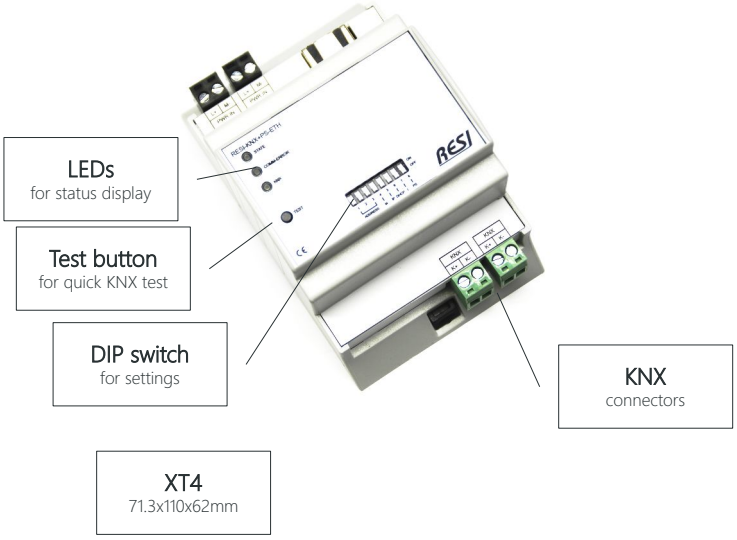


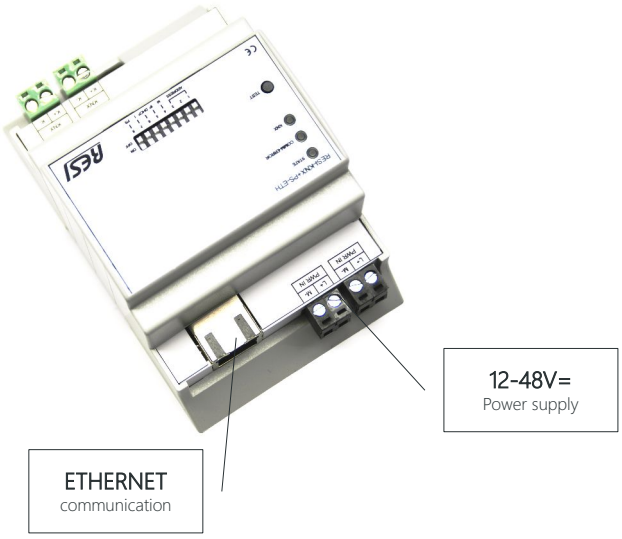
KNX↔MODBUS/ RTU MASTER gateway	KNX 65.536 group addresses supported	MODBUS/RTU MASTER for send/receive	external KNX power supply necessary
Functionality: Bidirectional gateway between MODBUS/RTU slave devices and KNX devices. Simple configuration of MODBUS master requests and KNX mapping of requested 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.

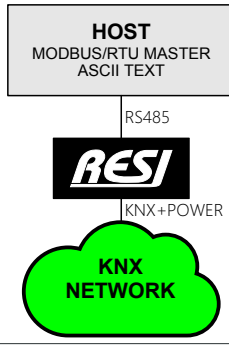






RESI-KNX+PS-SIO

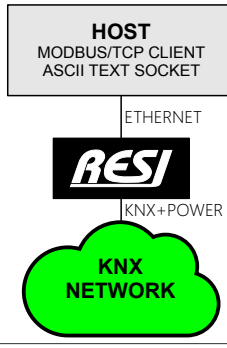
Our powerful master gateway between KNX bus and host with integrated, switchable KNX power supply. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Bidirectional communication with KNX devices. Support of all KNX group addresses. Mapping & testing between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



KNX↔MODBUS bidirectional gateway	KNX 65.536 group addresses supported	MODBUS all common data types supported	internal, switchable KNX power supply
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.		Serial Interface RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	KNX output current ≤160mA
			1xRS485 MODBUS/RTU slave ASCII text protocol
MODBUSConfigurator free configuration software	DIN EN 50022 Snap-on for DIN-Rail or wall mounting	XT4 71.3x110x62mm	12-48V= Power supply

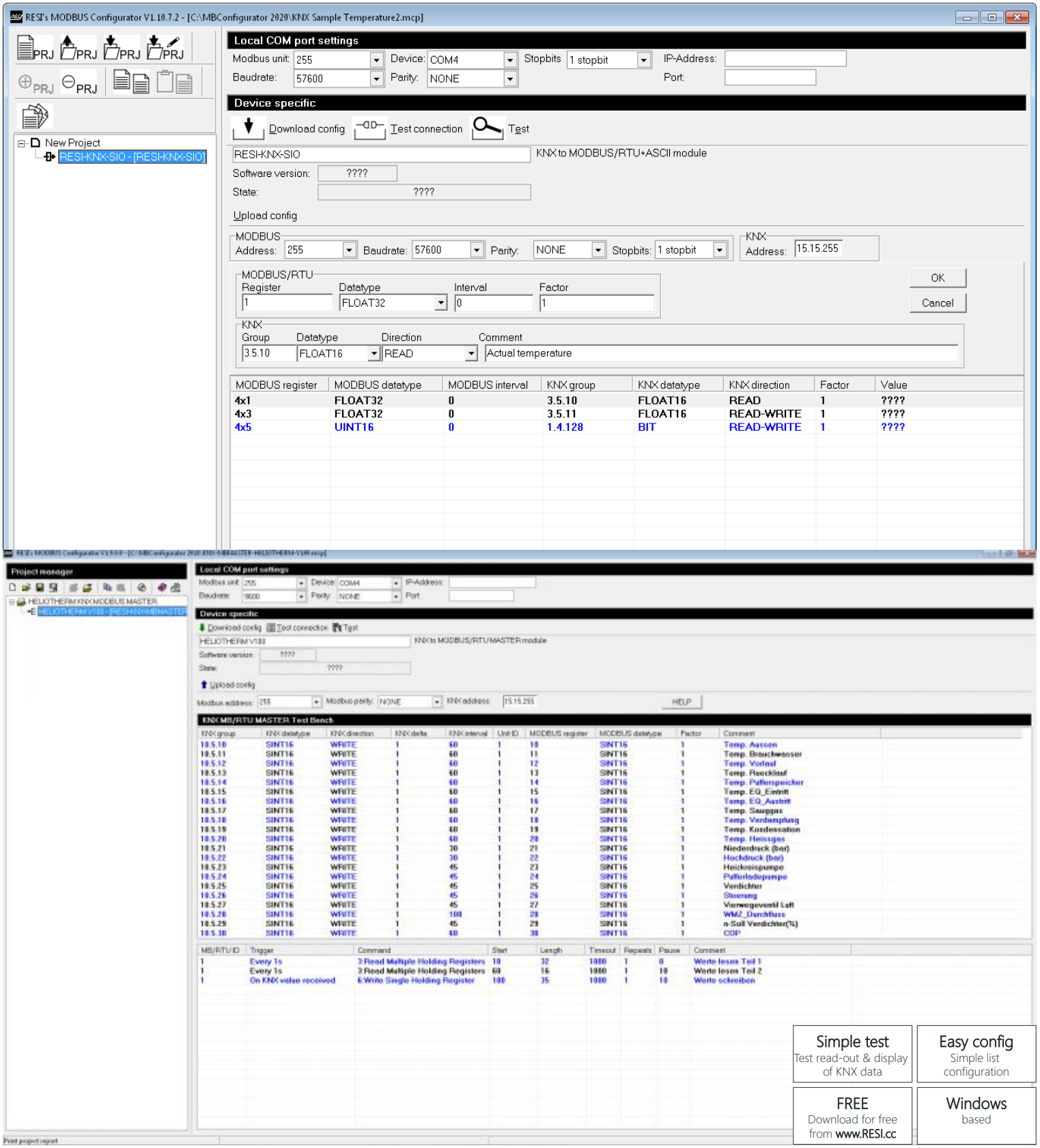
RESI-KNX+PS-ETH

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.



KNX↔MODBUS bidirectional gateway	KNX 65.536 group addresses supported	MODBUS all common data types supported	internal, switchable KNX power supply
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.		Ethernet Web Server for IP V4 setup MODBUS/TCP or MODBUS/RTU via Ethernet or ASCII text protocol	KNX output current ≤160mA
			1xETHERNET 10/100MBit RJ45
MODBUSConfigurator free configuration software	DIN EN 50022 Snap-on for DIN-Rail or wall mounting	XT4 71.3x110x62mm	12-48V= Power supply

MODBUSConfigurator



ENOCEAN

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RESI-ENO-xxx

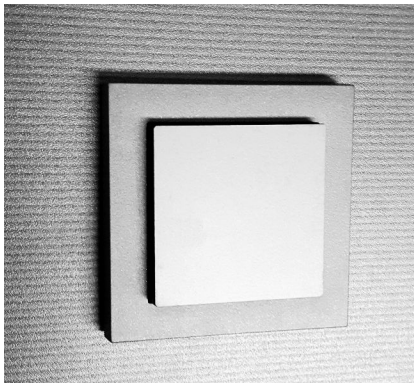
Our powerful master gateways between ENOCEAN sensors and host. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Special versions with ENOCEAN ESP3 protocol. Read-out of ENOCEAN sensors. Support of all ENOCEAN frames. Additional Antennas for better radio signal.

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

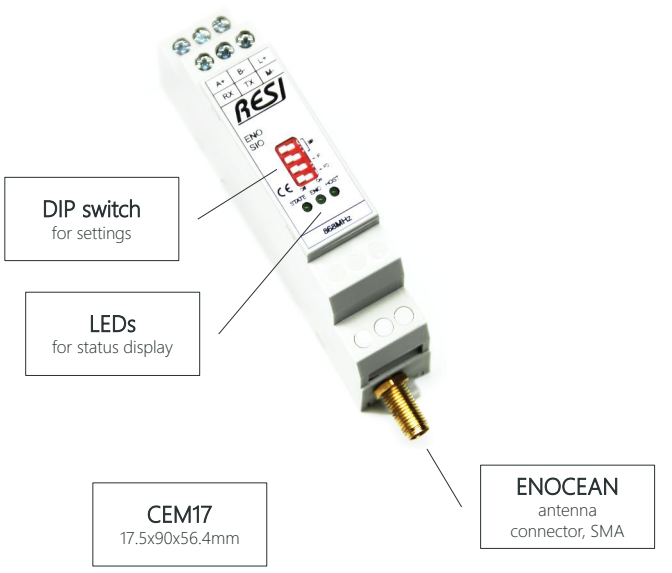
Our powerful master gateways between ENOCEAN sensors and host systems. Host protocols: MODBUS/RTU, MODBUS/TCP, ASCII text or KNX. Special versions with ENOCEAN ESP3 protocol. Read-out of ENOCEAN sensors. Support of all ENOCEAN frames. Additional Antennas for better radio signal.

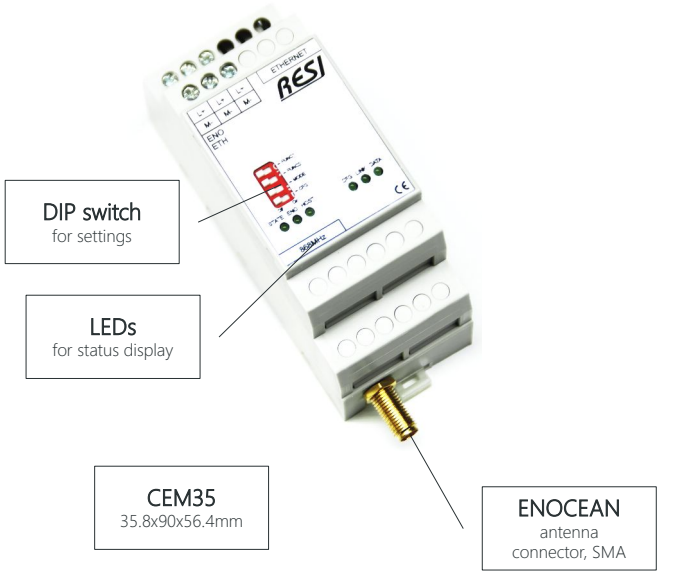


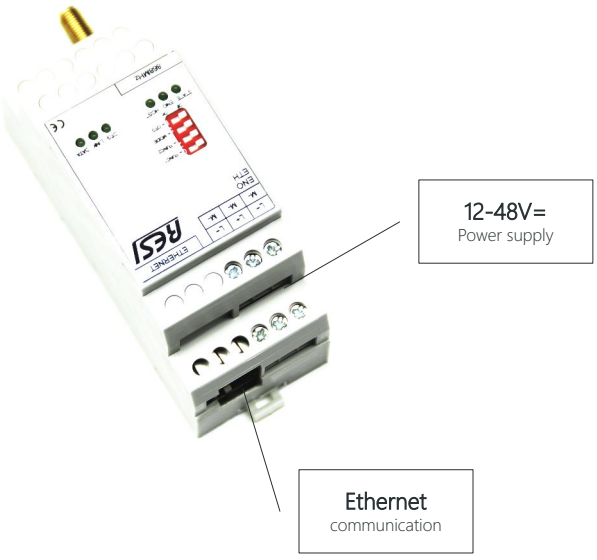
RESI-RG-ENO2-K	ENOCEAN Gateway	KNX	ENOCEAN	EU 868MHz	KNX protocol

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.

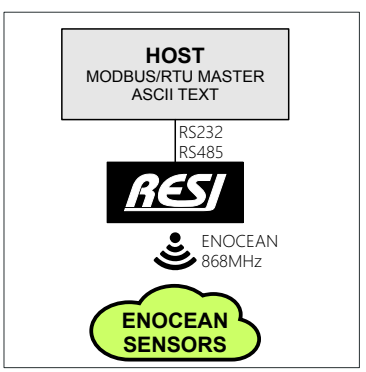






RESI-ENO-SIO

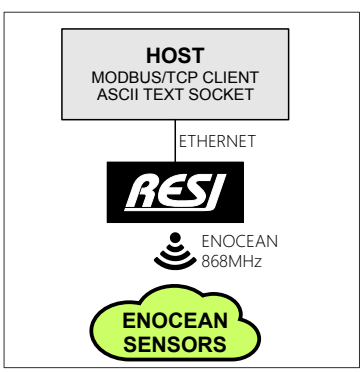
Our powerful master gateway between ENOCEAN sensors and host. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Bidirectional communication with ENOCEAN devices. Support of all ENOCEAN protocol types. ENOCEAN Antenna connector: SMA, Mapping & testing between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



ENOCEAN↔ MODBUS bidirectional gateway	ENOCEAN All frame types supported	MODBUS all common data types supported	868MHz EU Version
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.		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-ENO-ETH

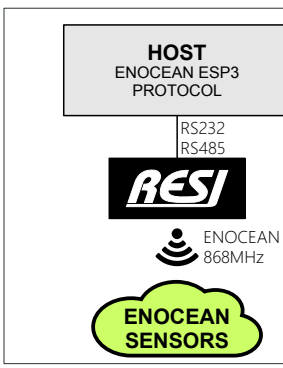
Our powerful master gateway between ENOCEAN sensors and host. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Bidirectional communication with ENOCEAN devices. Support of all ENOCEAN protocol types. ENOCEAN Antenna connector: SMA, Mapping & testing between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



ENOCEAN↔ MODBUS bidirectional gateway	ENOCEAN All frame types supported	MODBUS all common data types supported	868MHz EU Version
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.		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-ENO-GW

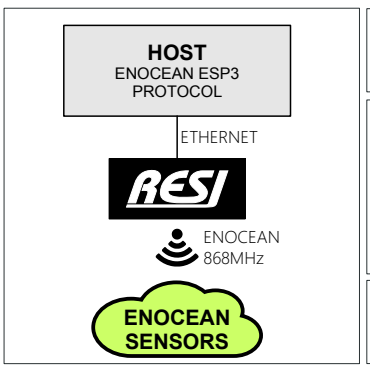
Our powerful master gateway between ENOCEAN sensors and host. Host protocol is ENOCEAN ESP3 protocol. Host communication via RS232 or RS485 serial interface. Bidirectional communication with ENOCEAN devices. ENOCEAN Antenna connector: SMA



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

RESI-ENOGW-ETH

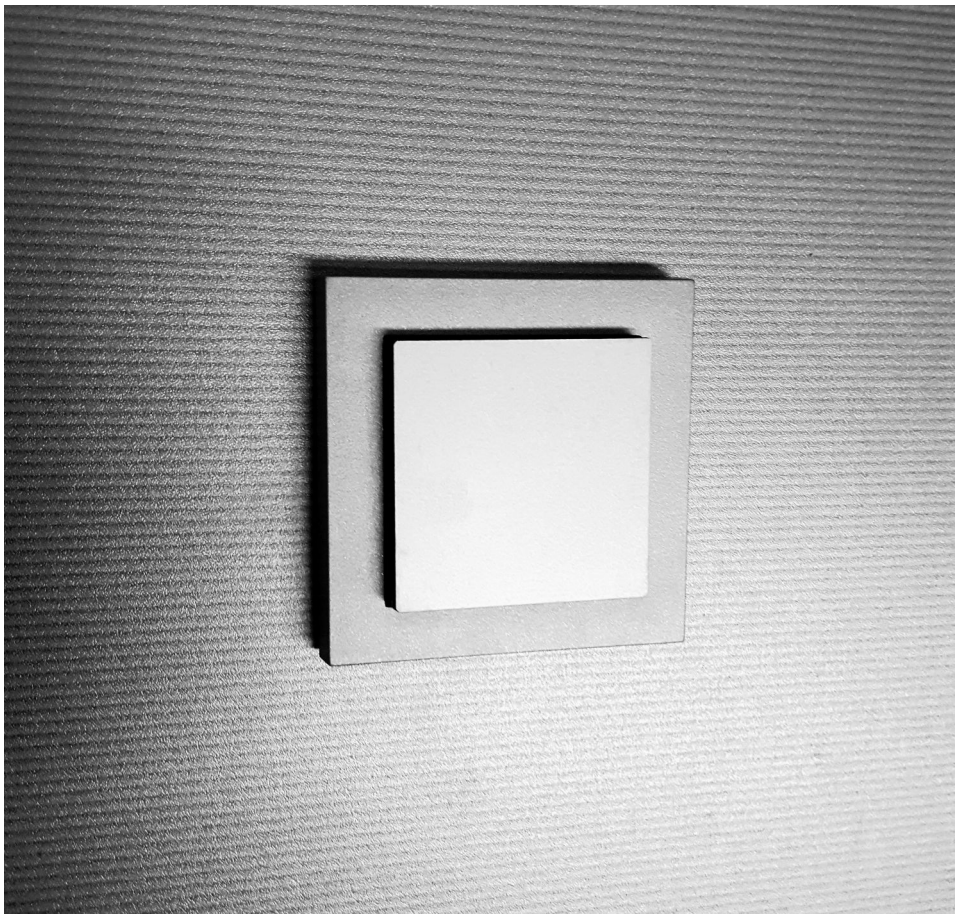
Our powerful master gateway between ENOCEAN sensors and host. Host protocol is ENOCEAN ESP3 protocol via TCP/IP socket. Host communication via Ethernet interface. Bidirectional communication with ENOCEAN devices. ENOCEAN Antenna connector: SMA

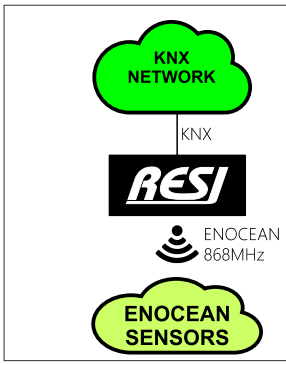


ENOCEAN↔ ESP©3 bidirectional gateway	ENOCEAN All frame types supported	ESP©3 host protocol	868MHz EU Version
Functionality Bidirectional gateway between host and ENOCEAN devices. Host protocol is ENOCEAN ESP3 protocol.		Ethernet Web Server for IP V4 setup ESP3 protocol via Ethernet Socket	1xETHERNET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

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 **FRAMES** GIRA©, BERKER©, JUNG©, SIEMENS©,...
LIBRE OFFICE© free configuration software	**On-wall mounting**	**SIZE** 80x80x15mm	**KNX** Power supply

SMI

it´s all about perfection

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.

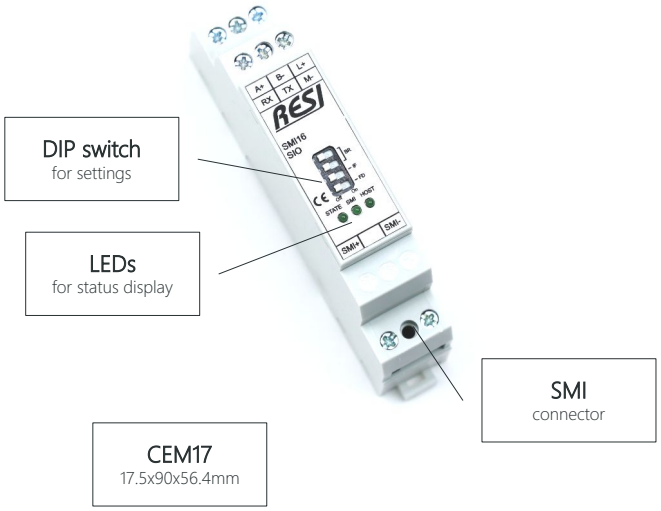


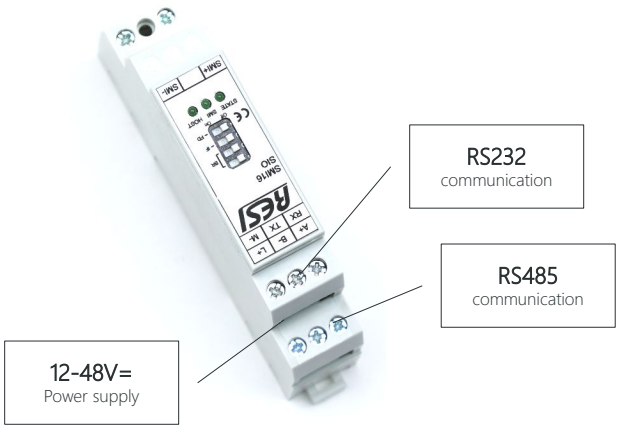

RESI-SMI8-SIO	SMI Gateway	RS232 RS485	SMI 8 shades/blinds	Integrated SMI power supply	MODBUS/RTU Slave ASCII text protocol
RESI-SMI16-SIO	SMI Gateway	RS232 RS485	SMI 16 shades/blinds	Integrated SMI power supply	MODBUS/RTU Slave ASCII text protocol
RESI-SMI8-ETH	SMI Gateway	ETHERNET	SMI 8 shades/blinds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

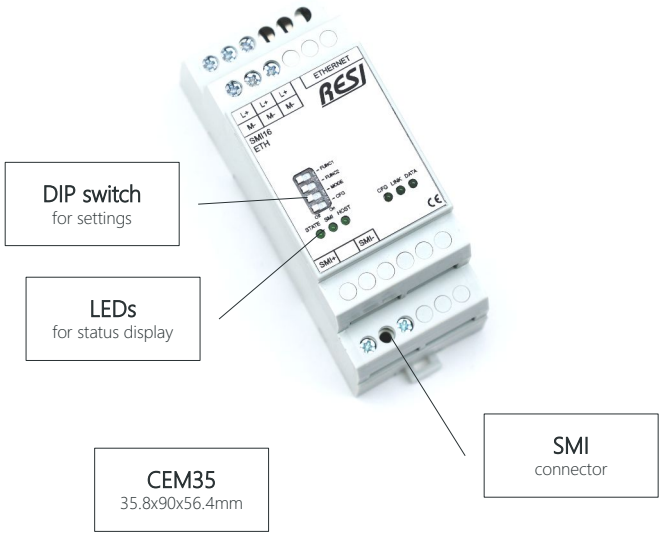
RESI-SMI16-DIAG	SMI Diagnostic gateway	RS232 RS485	SMI 16 shades/blinds	NO SMI power supply	SMI© protocol

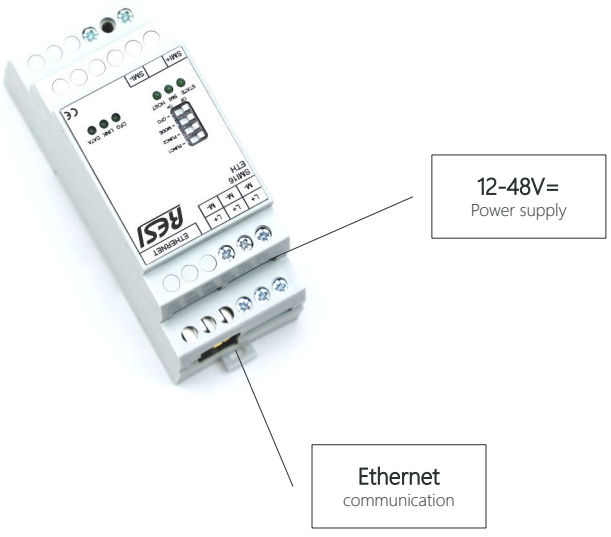
RESI-SMIx-xxx

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.



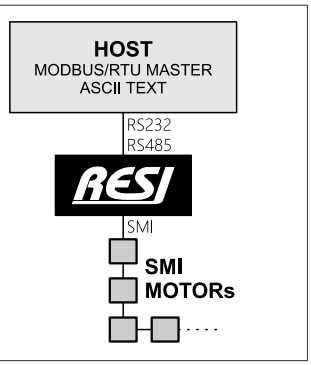






RESI-SMI8-SIO

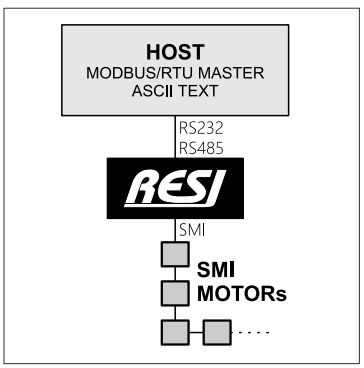
Our powerful master gateway to control SMI (STANDARD MOTOR INTERFACE) shades and blinds. Connect up to 8 SMI motors in line or star topology. Integrated SMI power supply to drive the SMI data bus. Host protocols: MODBUS/RTU or ASCII text. This gateway can be used with the original SMI software EasyMonitor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



SMI↔ MODBUS bidirectional gateway	SMI All common commands supported	MODBUS/ASCII Supports both protocols	8xSMI 8 SMI motors with power supply
Functionality SMI master for sending/receiving SMI commands/responses via MODBUS or ASCII to max. 8 SMI drives for shades or blinds. All common SMI commands and responses are supported.		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-SMI16-SIO

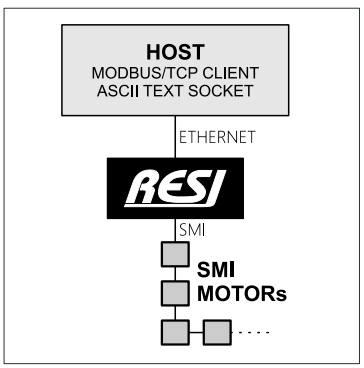
Our powerful master gateway to control SMI (STANDARD MOTOR INTERFACE) shades and blinds. Connect up to 16 SMI motors in line or star topology. Integrated SMI power supply to drive the SMI data bus. Host protocols: MODBUS/RTU or ASCII text. This gateway can be used with the original SMI software EasyMonitor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



SMI↔ MODBUS bidirectional gateway	SMI All common commands supported	MODBUS/ASCII Supports both protocols	16xSMI 16 SMI motors with power supply
Functionality SMI master for sending/receiving SMI commands/responses via MODBUS or ASCII to max. 16 SMI drives for shades or blinds. All common SMI commands and responses are supported.		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-SMI8-ETH

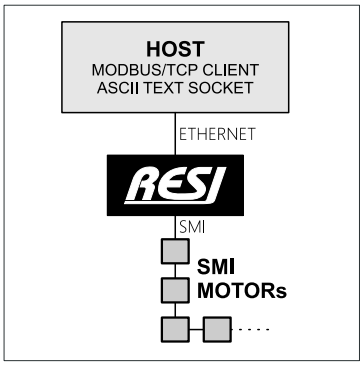
Our powerful master gateway to control SMI (STANDARD MOTOR INTERFACE) shades and blinds. Connect up to 8 SMI motors in line or star topology. Integrated SMI power supply to drive the SMI data bus. Host protocols: MODBUS/TCP or ASCII text.



SMI↔ MODBUS bidirectional gateway	SMI All common commands supported	MODBUS/ASCII Supports both protocols	8xSMI 8 SMI motors with power supply
Functionality SMI master for sending/receiving SMI commands/responses via MODBUS or ASCII to max. 8 SMI drives for shades or blinds. All common SMI commands and responses are supported.		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-SMI16-ETH

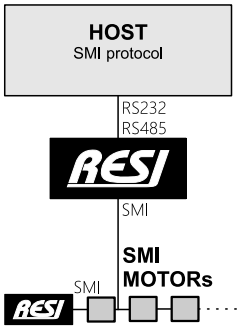
Our powerful master gateway to control SMI (STANDARD MOTOR INTERFACE) shades and blinds. Connect up to 16 SMI motors in line or star topology. Integrated SMI power supply to drive the SMI data bus. Host protocols: MODBUS/TCP or ASCII text.



SMI↔ MODBUS bidirectional gateway	SMI All common commands supported	MODBUS/ASCII Supports both protocols	16xSMI 16 SMI motors with power supply
Functionality SMI master for sending/receiving SMI commands/responses via MODBUS or ASCII to max. 16 SMI drives for shades or blinds. All common SMI commands and responses are supported.		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-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.



SMI↔ MODBUS bidirectional gateway	**SMI** All common commands supported	**SMI protocol** Supports all common commands	**16xSMI** 16 SMI motors NO power supply
Functionality SMI diagnostic gateway for logging/sending SMI commands to SMI drives for shades/blinds. Sniff the complete SMI communication between a SMI master and SMI motors.		**Serial Interface** RS232 or RS485 2400 baud No parity 8 data bits 1 stop bit	**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

TCP↔SERIAL

it´s all about perfection

RESI-1RSxxx-xxx

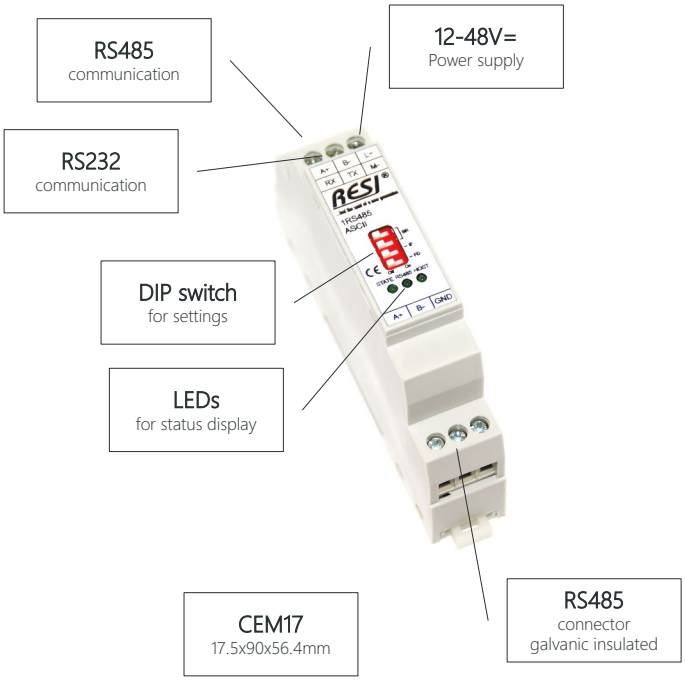
Our TCP to serial gateways with three operation modes: MODBUS/TCP Server to MODBUS/RTU master protocol conversion, MODBUS/RTU master via TCP/IP socket, Transparent data exchange between TCP/IP socket and serial line.
Galvanic insulated serial line extenders with two independent serial interfaces for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

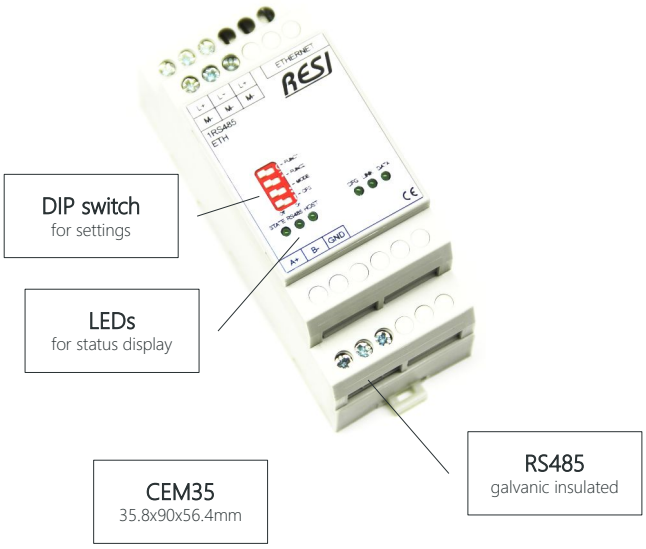


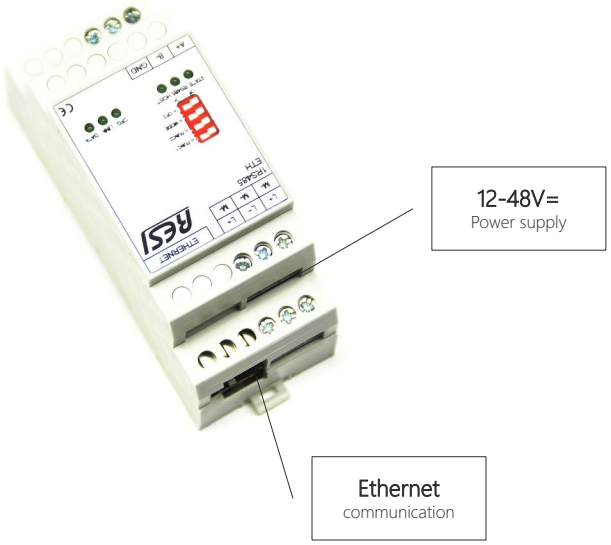

RESI-1RS232-ETH	MODBUS/TCP MODBUS/RTU Gateway	RS232 RS485	RS232	TRANSPARENT protocol	MODBUS/RTU via ETHERNET protocol	MODBUS/TCP protocol
RESI-1RS485-ETH	MODBUS/TCP MODBUS/RTU Gateway	ETHERNET	RS485	TRANSPARENT protocol	MODBUS/RTU via ETHERNET protocol	MODBUS/TCP protocol
RESI-1RS232-SIO	MODBUS/RTU MODBUS/RTU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

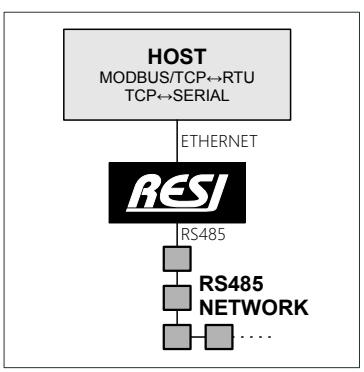






RESI-1RS485-ETH

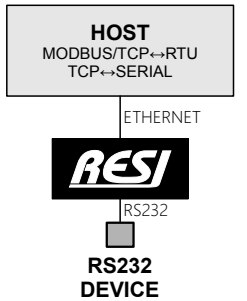
Our TCP to serial gateways with three operation modes: MODBUS/TCP Server to MODBUS/RTU master protocol conversion, MODBUS/RTU master via TCP/IP socket, Transparent data exchange between TCP/IP socket and RS485 serial interface.



TCP to SERIAL Gateway	MODBUS TCP↔RTU	MODBUS RTU via Ethernet	TRANSPARENT Ethernet↔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

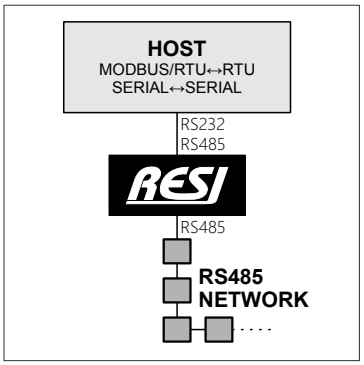
Our TCP to serial gateways with three operation modes: MODBUS/TCP Server to MODBUS/RTU master protocol conversion, MODBUS/RTU master via TCP/IP socket, Transparent data exchange between TCP/IP socket and RS232 serial interface.



TCP to SERIAL Gateway	MODBUS TCP↔RTU	MODBUS RTU via Ethernet	TRANSPARENT Ethernet↔RS232
Functionality Bidirectional gateway between TCP/IP socket and RS232 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-1RS485-SIO

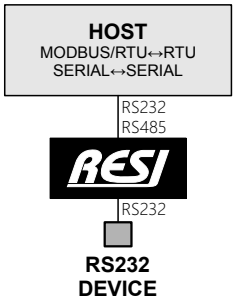
Our serial gateways with two galvanic insulated serial interfaces. Used for media conversion between RS232/RS485 and RS485 interface or for line extension on RS485. Individual baud rate, data bits, parity and stop bit settings for both interfaces possible. Transparent data exchange between the two serial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



SERIAL to RS485 Gateway	MODBUS RTU↔RTU	RS485↔RS485 RS232↔RS485	Galvanic insulated
Functionality Bidirectional gateway between RS232/RS485 serial interface and second RS485 serial interface. Different settings (baud rate, parity,...) between both serial interfaces.		**Serial Interface** RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS232 MODBUS or ASCII text protocol 1xRS485 MODBUS or 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-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.



SERIAL to RS232 Gateway	MODBUS RTU↔RTU	RS485↔RS232 RS232↔RS232	Galvanic insulated
Functionality Bidirectional gateway between RS232/RS485 serial interface and second RS232 serial interface. Different settings (baud rate, parity,...) between both serial interfaces.		**Serial Interface** RS232 or RS485 300..256000 baud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS232 MODBUS or ASCII text protocol 1xRS485 MODBUS or 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

USB

it´s all about perfection

RESI-USB-xxx

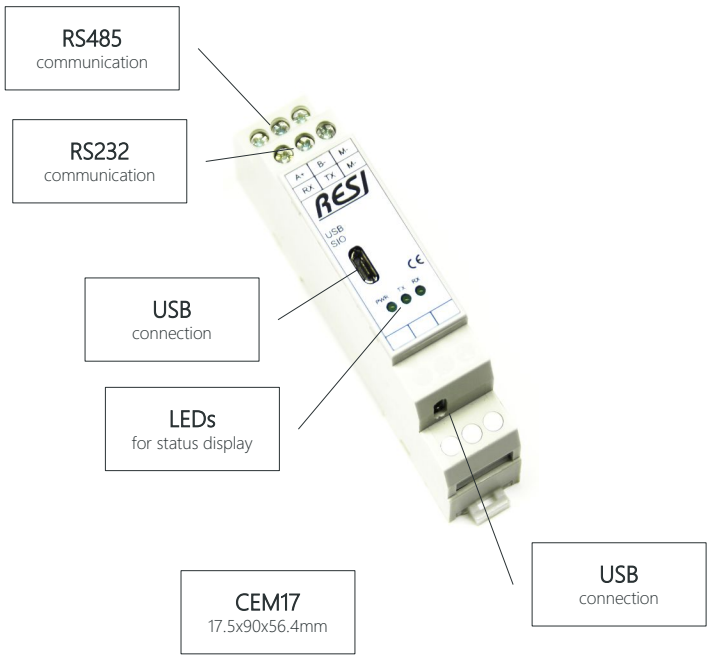
Our USB to serial gateways offer either a RS232 or RS485 interface or three RS485 interfaces. USB standard is USB 1.1/USB.2.0. In addition we offer a USB power supply with 700mA USB output current. We offer a RS232/RS485 USB gateway with a box housing designed for laptop usage.

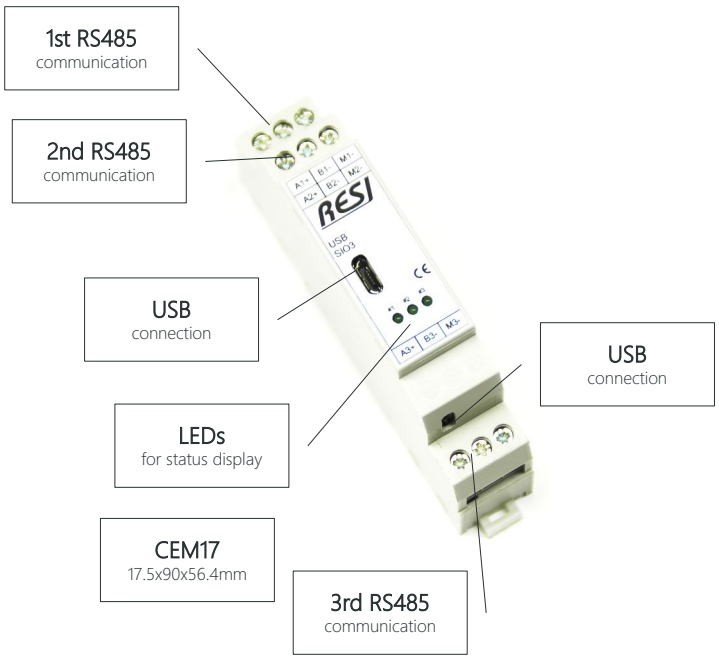


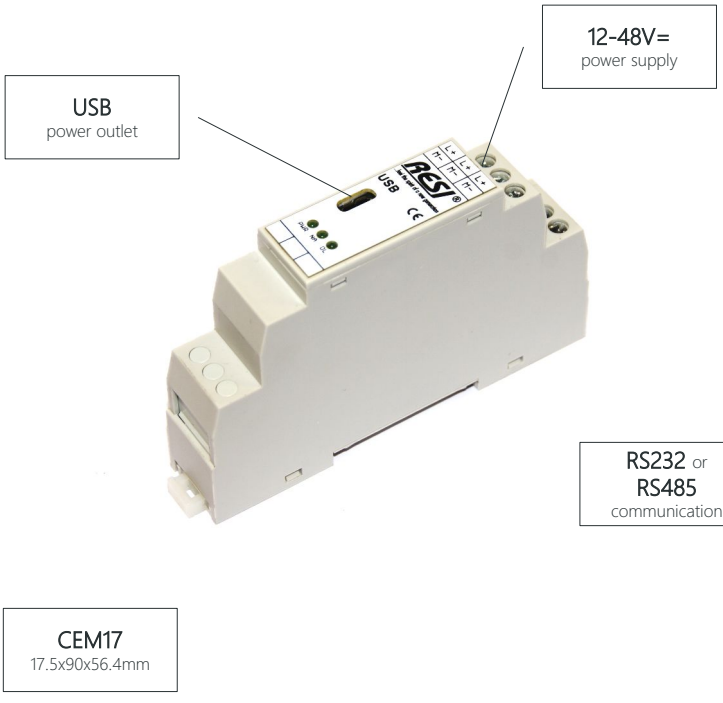

RESI-USB-SIO	USB↔SERIAL Gateway	USB 1.1 USB 2.0	RS232 or RS485	Silicon Labs CP2103 chipset	RS485 Automatic TX/RX flow control
RESI-USB-SIO3	USB↔SERIAL Gateway	USB 1.1 USB 2.0	3xRS485	ST Microsystems STM32 chipset	RS485 Automatic TX/RX flow control
RESI-USB-BOX	USB↔SERIAL Gateway	USB 1.1 USB 2.0	RS232 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	

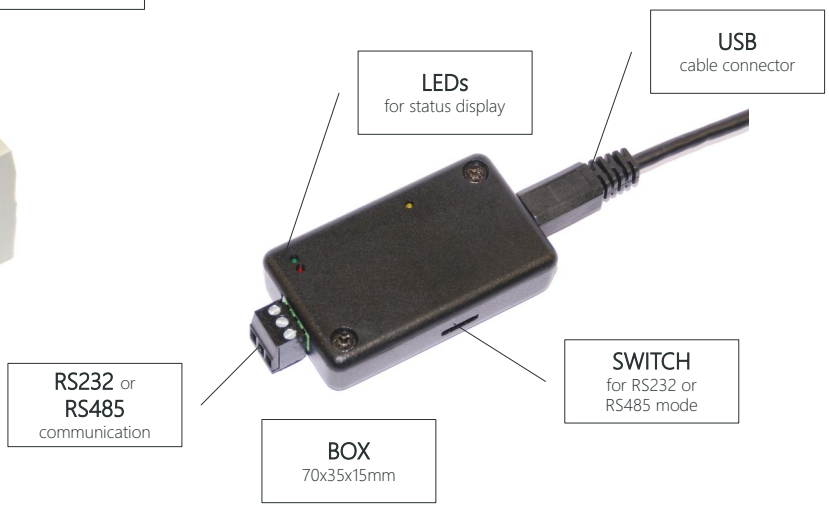
RESI-USB-xxx

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.



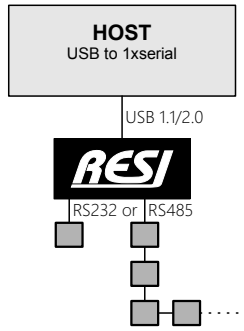






RESI-USB-SIO

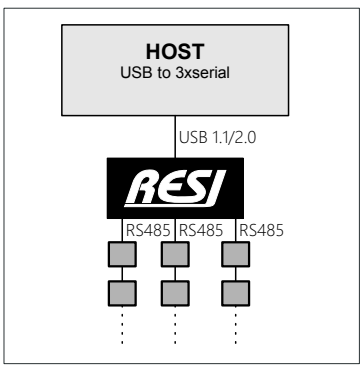
Our USB to serial gateway offers either a RS232 or RS485 interface. USB standard is USB 1.1/USB.2.0.



USB to SERIAL Gateway	USB 1.1 USB 2.0	RS232 or RS485	Galvanic insulated
Functionality USB to serial interface based on Silicon Labs CP2103 chipset. Use either RS232 or RS485 interface via USB port.		Serial Interface RS232 or RS485 300..1Mbaud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS232 1xRS485 USB Via two connectors
Own software use your own software	DIN EN 50022 Snap-on for DIN-Rail	CEM17 17.5x90x56.4mm	USB Power supply

RESI-USB-SIO3

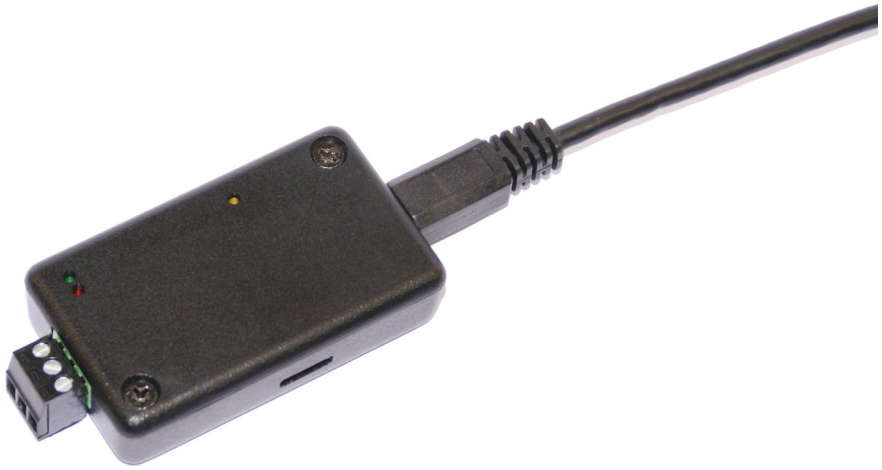
Our USB to serial gateway offers three RS485 interfaces. USB standard is USB 1.1/USB.2.0.

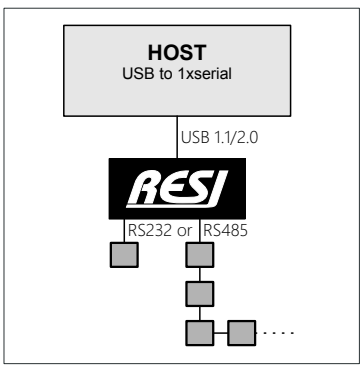


USB to SERIAL Gateway	USB 1.1 USB 2.0	RS232 or RS485	Galvanic insulated
Functionality USB to serial interface based on STMicrosystems STM32 chipset. Use all three RS485 interfaces parallel via USB port.		Serial Interfaces 3xRS485 300..1Mbaud No, even, odd parity 8 data bits 1 or 2 stop bits	3xRS485 Via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

RESI-USB-BOX

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

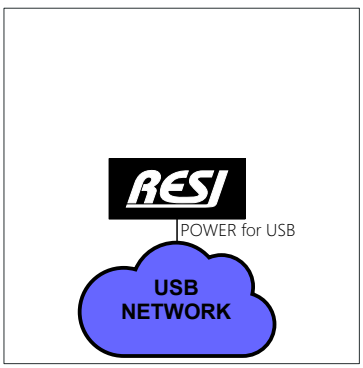




USB to SERIAL Gateway	USB 1.1 USB 2.0	RS232 or RS485	Galvanic insulated
Functionality USB to serial interface based on Silicon Labs CP2103 chipset. Use either RS232 or RS485 interface via USB port.		Serial Interface RS232 or RS485 300..1Mbaud No, even, odd parity 8 data bits 1 or 2 stop bits	1xRS232 1xRS485 USB Via one connector
Own software use your own software	LAPTOP/PC for use with mobile devices	BOX 70x35x15mm	USB Power supply

RESI-USB-PS

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



	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-xS0-xxx

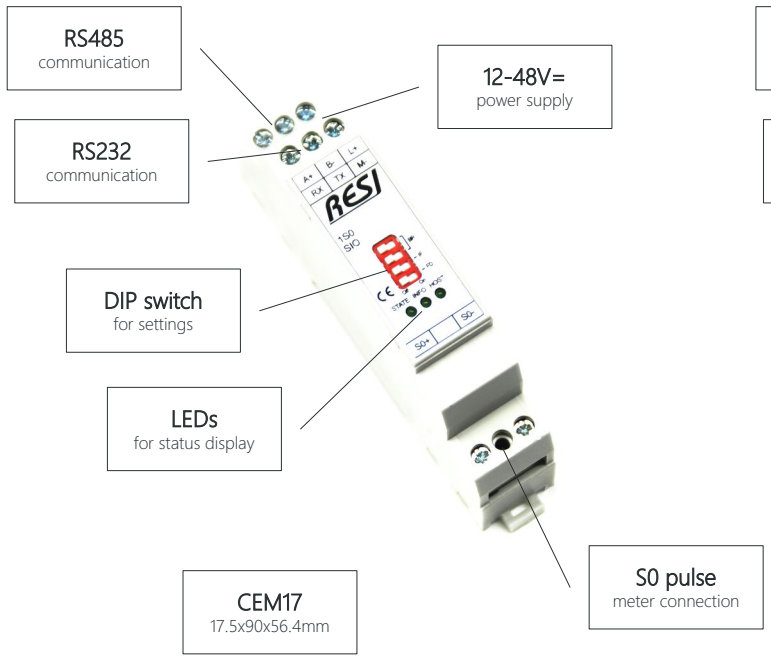
Our powerful S0 gateways count S0 impulses from connected meters with impulse outputs. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Internal ferro magnetic memory to save the actual counter values in case of power lost. Internal calculation of accumulated energy with multiplication factor for 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.

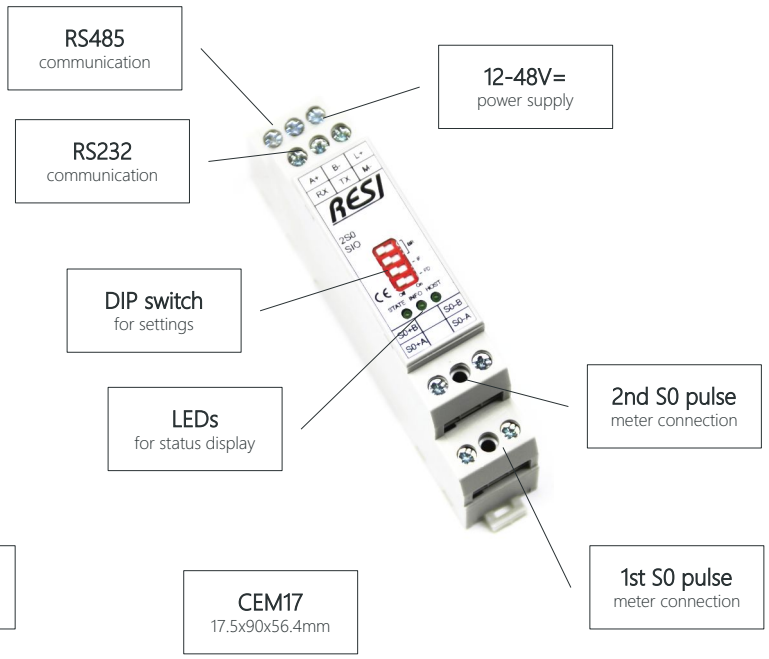


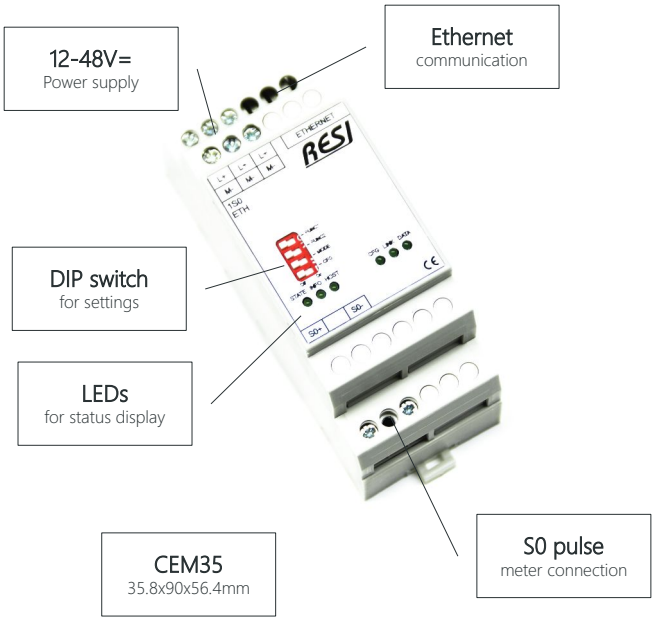

RESI-1S0-SIO	RS232 RS485	1xS0	1 Meter	IMPULSE counting	MODBUS/RTU Slave ASCII text protocol
RESI-2S0-SIO	RS232 RS485	1xS0	2 Meter	IMPULSE counting	MODBUS/RTU Slave ASCII text protocol
RESI-1S0-ETH	ETHERNET	2xS0	1 Meter	IMPULSE counting	MODBUS/TCP Server ASCII text socket
RESI-2S0-ETH	ETHERNET	2xS0	2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

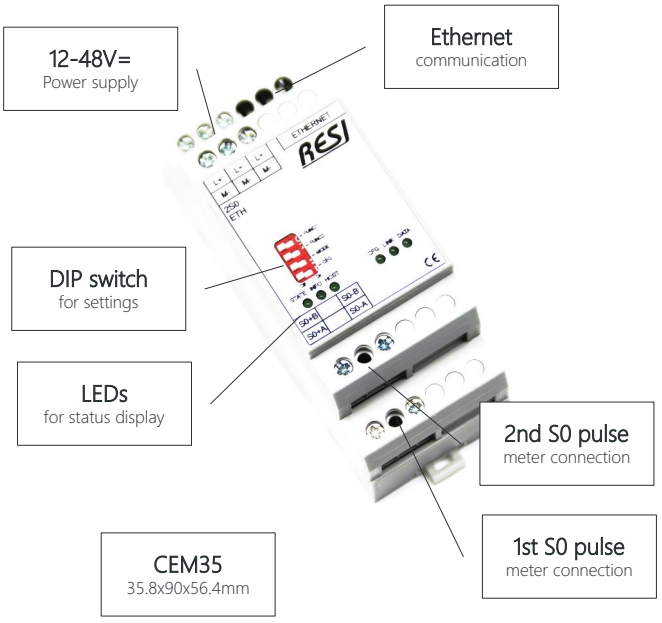
RESI-xS0-xxx

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.



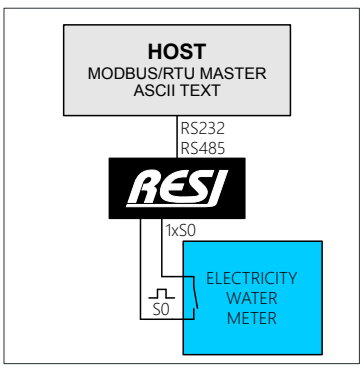






RESI-1S0-SIO

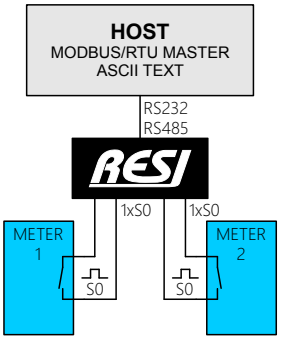
Our powerful S0 gateway counts S0 impulses from one connected meter with impulse output. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Internal ferro magnetic memory to save the actual counter values in case of power lost. Internal calculation of accumulated 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 ≥30ms	S0 current Ityp ~13.6mA Imax ≤20mA	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

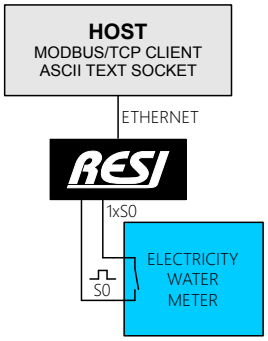
Our powerful S0 gateway counts S0 impulses from two connected meters with impulse output. Host protocols: MODBUS/RTU or ASCII text. Host communication via RS232 or RS485 serial interface. Internal ferro magnetic memory to save the actual counter values in case of power lost. Internal calculation of accumulated 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 ≥30ms	S0 current Ityp ~8.2mA Imax ≤20mA	S0 voltage 15V=
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	DIN EN 50022 Snap-on for DIN-Rail	CEM17 17.5x90x56.4mm	12-48V= Power supply

RESI-1S0-ETH

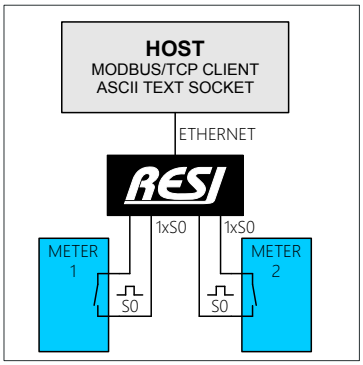
Our powerful S0 gateway counts S0 impulses from one connected meter with impulse output. Host protocols: MODBUS/TCP or ASCII text socket. Host communication via Ethernet interface. Internal ferro magnetic memory to save the actual counter values in case of power lost. Internal calculation of accumulated 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.



1xS0 pulse counting module	S0 pulse duration ≥30ms	S0 current Ityp ~13.6mA Imax ≤20mA	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.		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

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.



2xS0 pulse counting module	**S0 pulse duration** ≥30ms	**S0 current** Ityp ~8.2mA Imax ≤20mA	**S0 voltage** 15V=
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.		**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

RESI-1EGYDCx-xxx

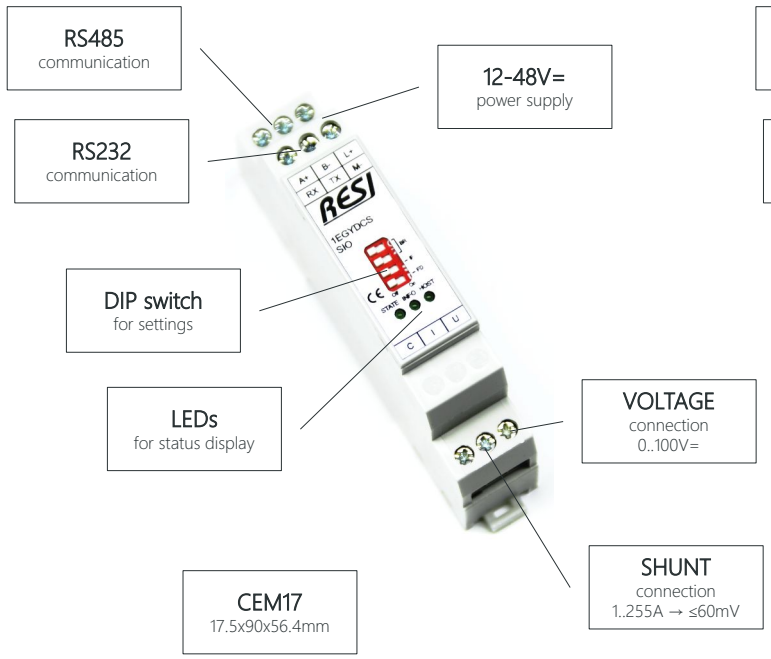
Our powerful DC energy meters measures the DC voltage and DC current either with an external shunt or with an external Hall sensor. Host protocols: MODBUS/RTU, MODBUS/TCP or ASCII text. Internal ferro magnetic memory to save the actual values in case of power lost. Internal calculation of power and energy.

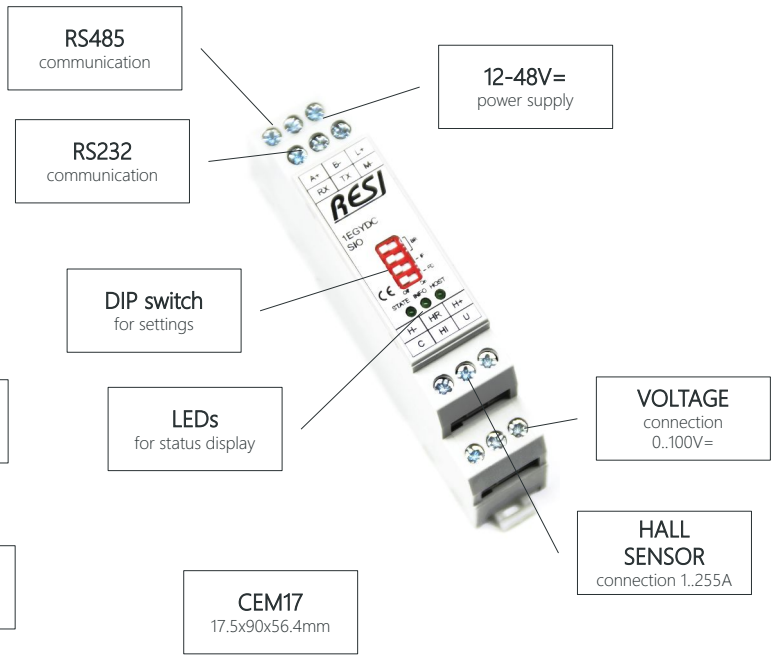


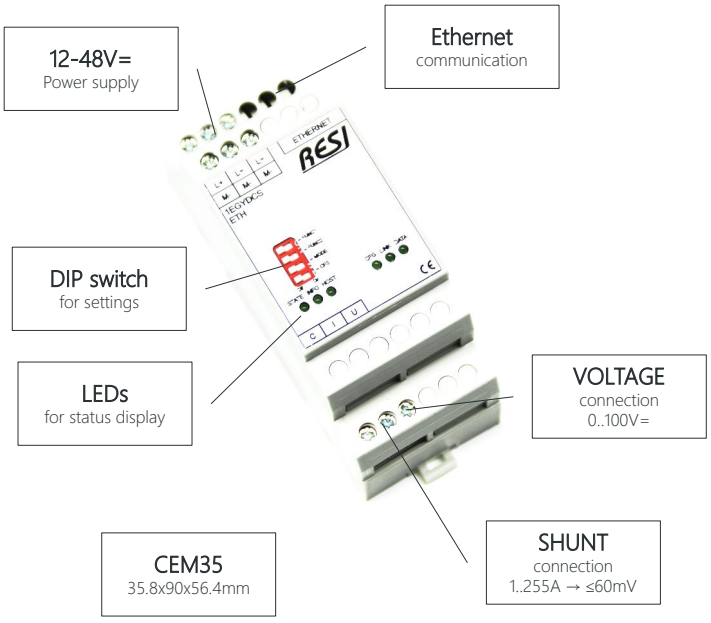

RESI-1EGYDCS-SIO	RS232 RS485	1xDC SMART METER	1 Meter	U: ≤100V= I: ≤255A	SHUNT measurement of DC CURRENT	MODBUS/RTU Slave ASCII text protocol
RESI-1EGYDC-SIO	RS232 RS485	1xDC SMART METER	1 Meter	U: ≤100V= I: ≤255A	HALL SENSOR measurement of DC CURRENT	MODBUS/RTU Slave ASCII text protocol
RESI-1EGYDCS-ETH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

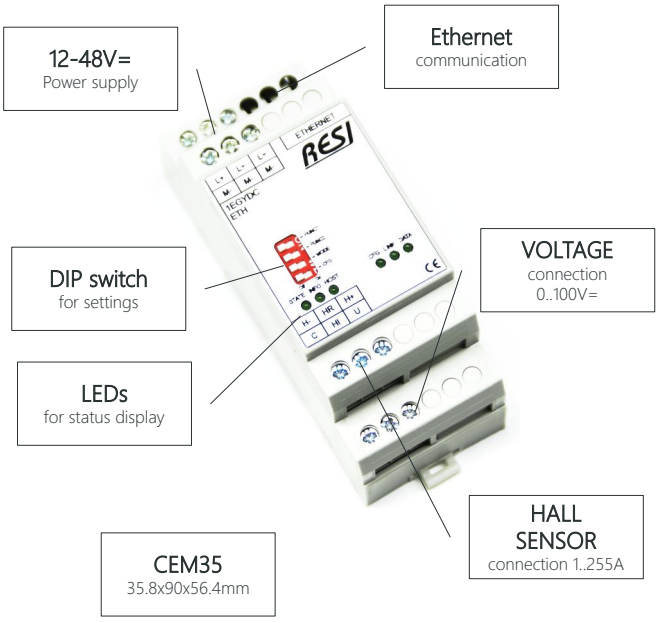
RESI-1EGYDCx-xxx

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.



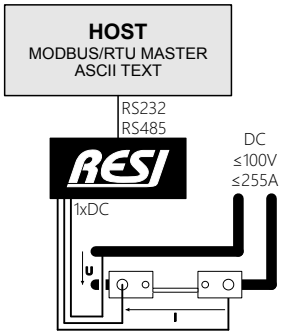






RESI-1EGYDCS-SIO

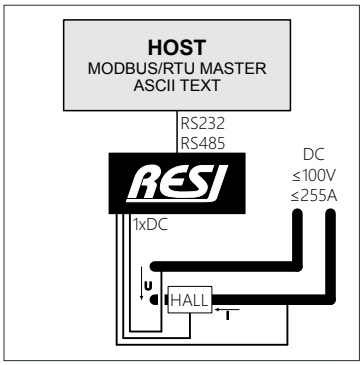
Our powerful DC energy meter measures the DC voltage and DC current with an external shunt. Shunt currents between 1 and 255A. Shunt output voltage ≤60mA. Host protocols: MODBUS/RTU or ASCII text. Internal ferro magnetic memory to save the actual values in case of power lost. Internal calculation of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



1xDC ENERGY METER	SHUNT measurement	DC voltage Vmax ≤100V	DC current Imax ≤255A
Functionality Measures DC voltage & current. Calculates DC power and energy. DC current measurement with external shunt. Shunt output voltage ≤60mV.		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

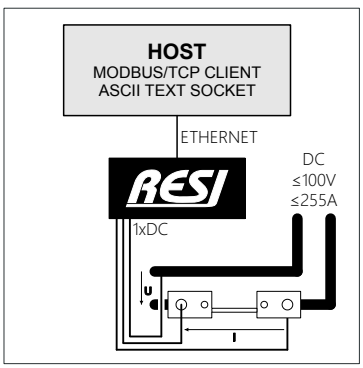
Our powerful DC energy meter measures the DC voltage and DC current with an external hall sensor. Hall sensor currents between 1 and 255A. Host protocols: MODBUS/RTU or ASCII text. Internal ferro magnetic memory to save the actual values in case of power lost. Internal calculation of power and energy.



1xDC ENERGY METER	HALL SENSOR measurement	DC voltage Vmax ≤100V	DC current Imax ≤255A
Functionality Measures DC voltage & current. Calculates DC power and energy. DC current measurement with external hall sensor. Hall sensor output voltage 2.5V±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

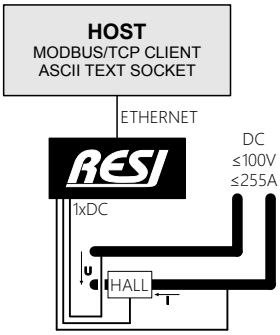
Our powerful DC energy meter measures the DC voltage and DC current with an external shunt. Shunt currents between 1 and 255A. Shunt output voltage ≤60mA. Host protocols: MODBUS/TCP or ASCII text socket. Internal ferro magnetic memory to save the actual values in case of power lost. Internal calculation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



1xDC ENERGY METER	SHUNT measurement	DC voltage Vmax ≤100V	DC current Imax ≤255A
Functionality Measures DC voltage & current. Calculates DC power and energy. DC current measurement with external shunt. Shunt output voltage ≤60mV.		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

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 Vmax ≤100V	DC current Imax ≤255A
Functionality Measures DC voltage & current. Calculates DC power and energy. DC current measurement with external hall sensor. Hall sensor output voltage 2.5V±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

it´s all about perfection

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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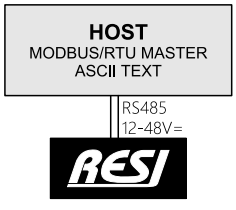
CLOCK

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.



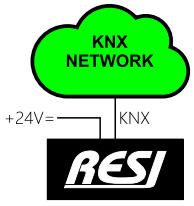
DATE, TIME, SECONDS
YEAR, MONTH, DAY

Sync via RS485

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

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.



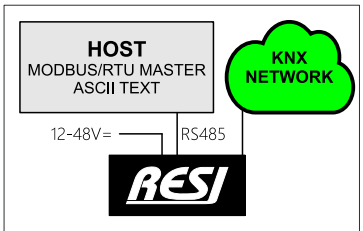
DATE, TIME, SECONDS
YEAR, MONTH, DAY

Sync via KNX

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.



DATE, TIME, SECONDS
YEAR, MONTH, DAY

Sync via RS485

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

ACCESSORIES

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ACCESSORIES

Here you will find additional articles to complete our portfolio.

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