

Productsheet - SC.GH.01

Ethernet for serial RS485/RS232 gateway with integrated web-server for simple configuration.

The gateway facilitates the connection of serial units over great distances via local area networks (LAN) or wide area network/internet (WAN) as a virtual serial port.

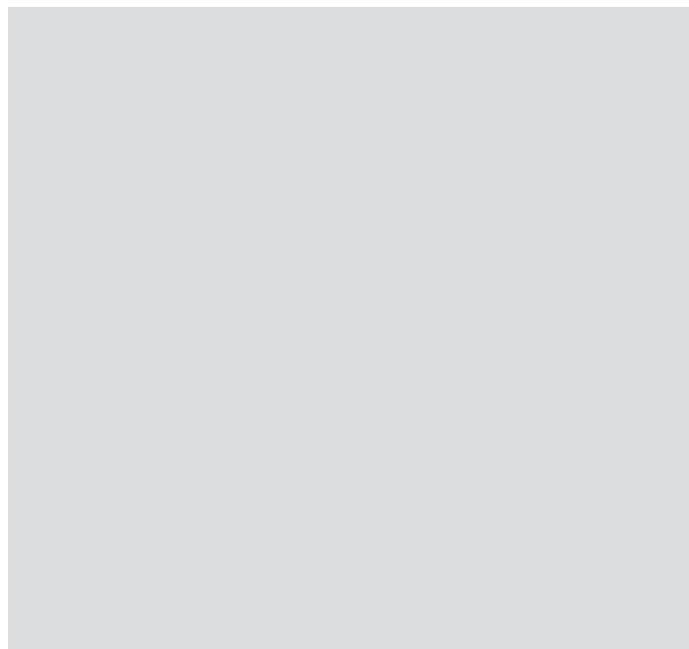
The gateway is versatile. In combination with a Clever-House controller with a MOD-Bus channel it can be used to collect consumption data from an energy/electrical/water meter in for instance two separate buildings without having to wire it. Two gateways are needed per meter to be connected. Gateways are to be connected to the internet, and it is setup for port forwarding in the server end. A MOD-Bus controller can communicate with several slaves, where one of them must have a fixed Baudrate different from the rest of the network. In this setup, a SC.GH.01 can be used as Baudrate-converter.

SunSystems or other PV systems can be monitored using an SC.GH.01, as a cost-efficient solution.

Specifications

| Ethernet | Specification |
|--------------------|---|
| # of ports | 1 |
| Interface standard | 8 terminals RJ45 |
| Speed | 10/100 Mbps auto detektion |
| Receiving buffer | Max. 16 kB buffer |
| Network protocols | IP, TCP, UDP, DHCP, DNS, HTTP, ARP, ICMP, Websocket, HTTPD Client |
| Protection | 2 kV ESD |
| Auto MDI/MDIX | JA |

| Software | Specification |
|----------------|---|
| Virtual serial | Windows 2000 or newer (32 bit/64 bit) |
| Configuration | Webside/setup software/ Serial kommando |

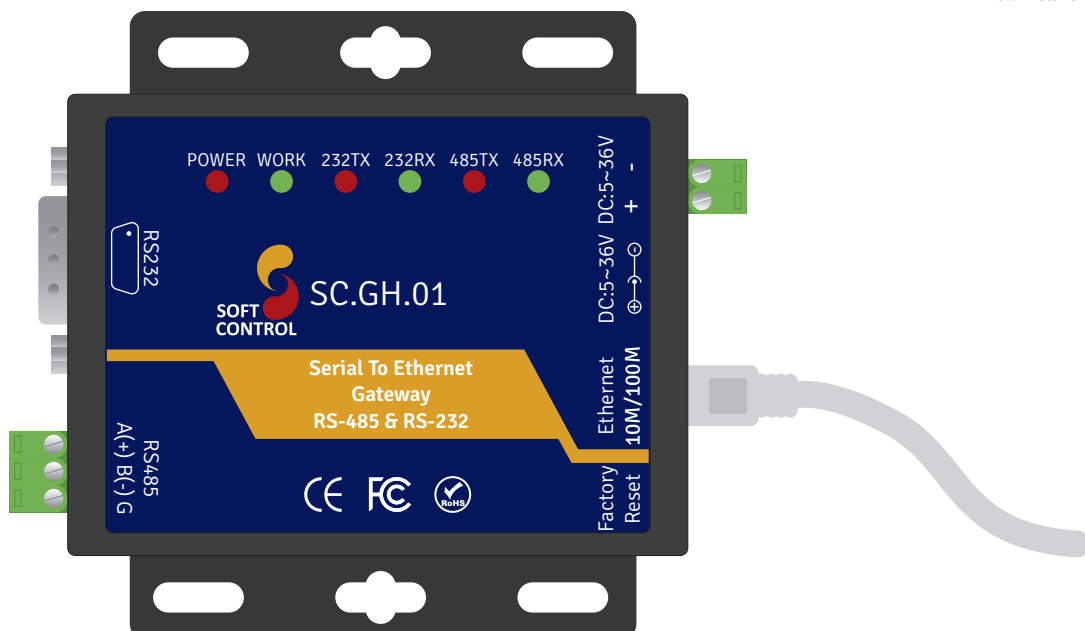


III. 1 - Image of SC.GH.01.

Brief facts

- The MOD-Bus gateway function supports MOD-Bus TCP to RTU in bidirectional mode as master/slave
- Virtual serial channel connecting PC/Servers to remote serial units via ethernet
- MOD-Bus polling function
- HW polling function
- Both serial ports can be used individually and simultaneously
- Supports DNS & DHCP, automatic IP-access
- Max of 8 simultaneously clients as TCP servers
- Reset button for default/factory settings
- Versatile and compatible with 5-36 V power supply with courtesy power supply or existing power supply via 2 screw terminals.
- Can be mounted on DIN-rail with an addon bracket

| Basic parameter | Specification |
|--------------------------|--|
| Dimensions (WxHxD) | 90 x 84 x 25 mm incl. plug and terminals |
| Operational temperatures | -40 ~ 85 °C |
| Ambient temperatures | -40 ~ 85 °C, 5 ~ 95% RH |



Ill. 2 - Overview of SC.GH.01 (1:1).

| Serial | Specification |
|-------------|--|
| # of ports | 2 |
| Interface | RS232 x 1 (9 pin D-sub) RS485 x 1 (A+, B-) |
| Baudrate | RS232: 600bps - 256k bps RS485: 600bps - 256k bps |
| Databit | 5, 6, 7, 8 |
| Stopbit | 1; 1,5; 2 |
| Paritybit | None, Equal, Odd |
| Flowcontrol | Hardware: RTS/CTS |
| Buffer | Send and receive 2 kB |
| Protection | RS485 2 kV ESD, lightning protection |
| Resistance | RS485 Pull up and -down 2,2k Ω |

| Supply | Specification |
|-------------------|-----------------------------|
| Current | DC 5-36 V |
| Power consumption | 90 mA @ 5 V; < 50 mA @ 12 V |
| Power consumption | < 1 W |

| Included accessories | Specification |
|----------------------|----------------------|
| Power supply | 230 VAC to 5 V @ 1 A |

| Further | Specification |
|----------------|---------------|
| Approvals | CE, FCC, ROHS |
| Product number | 96141615 |



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