

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.

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



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

Specifications

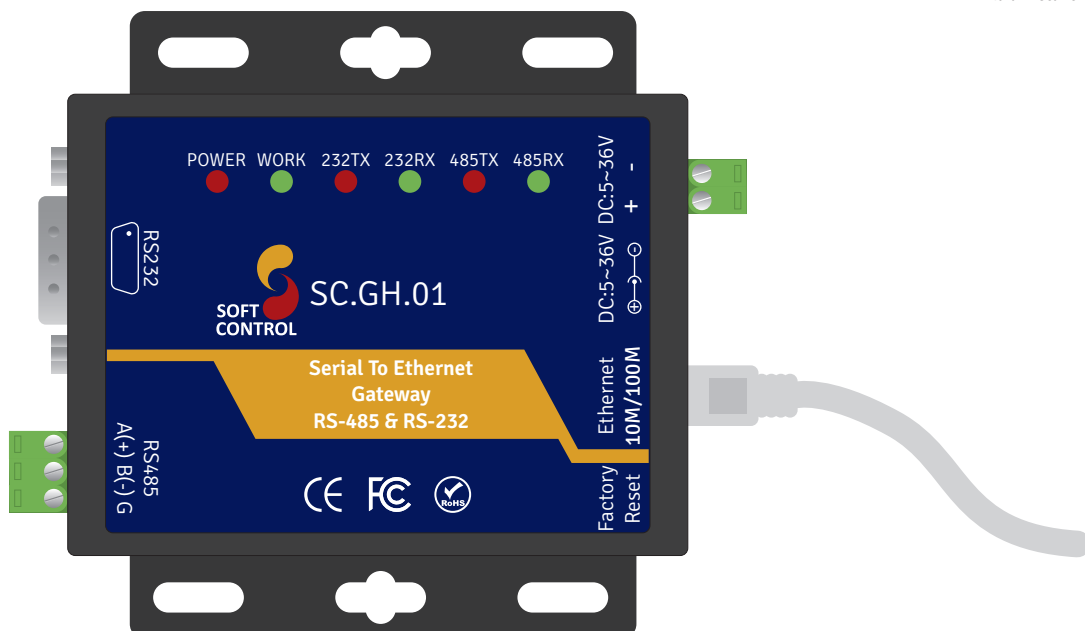
Ethernet	Specification
# of ports	1
Interface standard	8 terminals RJ45
Speed	10/100 Mbsp auto detektion
Receiving buffer	Max. 16 kB buffer
Network protocols	IP, TCP, UDP, DHCP, DNS, HTTP, ARP, ICMP Websocket, HTTPD Client
Protection	2 kV ESD
Auto MDI/MDIX	JA

Software	Specification
Virtuel seriel	Windows 2000 or newer (32 bit/64 bit)
Configuration	Webside/setup software/ Seriel kommando

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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