Productsheet - SC.GH.02

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 CleverHouse 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 CleverHouse (master) can only be connected to devices (slaves) having the same baudrate. In the event, where a device (slave) with another baudrate – than the rest of the network – is to be connected to the same CleverHouse (master), then the SC.GH.01 can be used as a baudrate converter.

SunSystems or other PV systems can be monitored by the use of an SC.GH.02, as a cost-efficient solution.

Specifications

Wi-Fi	Specification
Standard	802,11 b/g/n
Transmitter effect	802.11b: +18 +/-1dBm(@11Mbps CCK) 802.11g: +17 +/-1dBm(@54Mbp OFDM) 802.11n: +15 +/-1dBm(@HT20, MCS7)
Received sensitivity	802.11b: -85 dBm(@11Mbps CCK) 802.11g: -70 dBm(@54Mbps OFDM) 802.11n: -68 dBm(@HT20 MCS7)
Antenna interface	Ekstern: SMA antenne
Wireless network	AP, STA, AP + STA
Security mechanism	WEP/WPA-PSK/WPA2-PSK
Encryption key	TKIP, AES , TKIP/AES
Network protocol	IPV4, TCP/UDP

Software	Specification
Configuration	Webside/setup software/ Serial commando (TTP)

Ill. 1 - Image of SC.GH.02.

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.
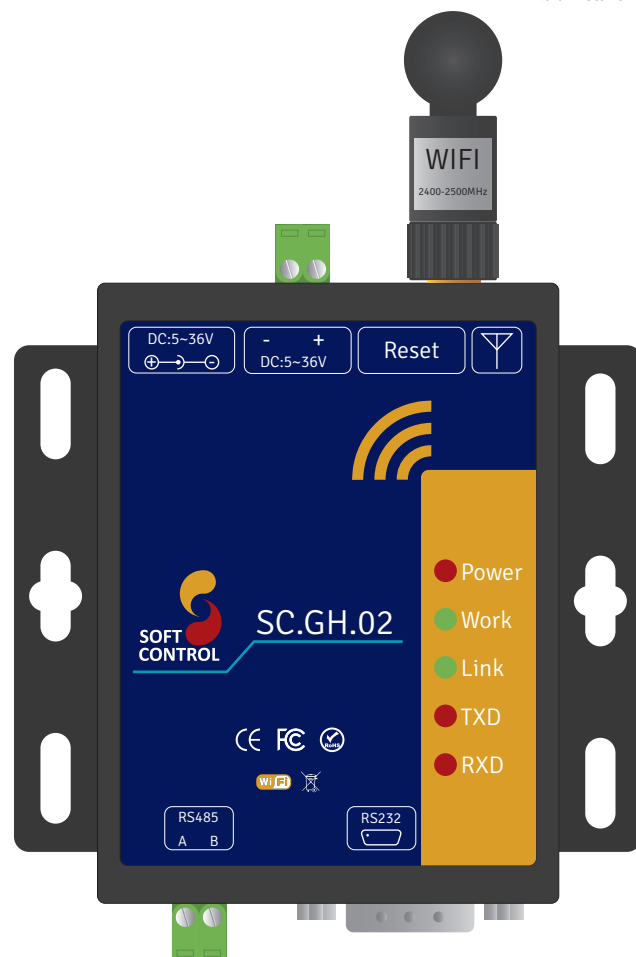- Can be mounted on DIN-rail with an addon bracket

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Serial	Specification
# of ports	2
Interface standard	RS232 x 1 (9 pin D-sub) RS485 x 1 (A+, B-)
Baudrate	RS232: 600bps til 256k bps RS485: 600bps til 256k bps
Databit	5, 6, 7, 8
Stopbit	1; 1,5; 2
Parity bit	None, Even, 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

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

Supply	Specification
Power supply	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

Additional	Specification
Approvals	CE, FCC, ROHS
Product number	96141616

Ill. 2 - Overview of SC.GH.02 (1:1).

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