# Datasheet - SC.GH.02

## Ethernet for serial RS485/RS232 gateway with integrated web-server for simple configuration
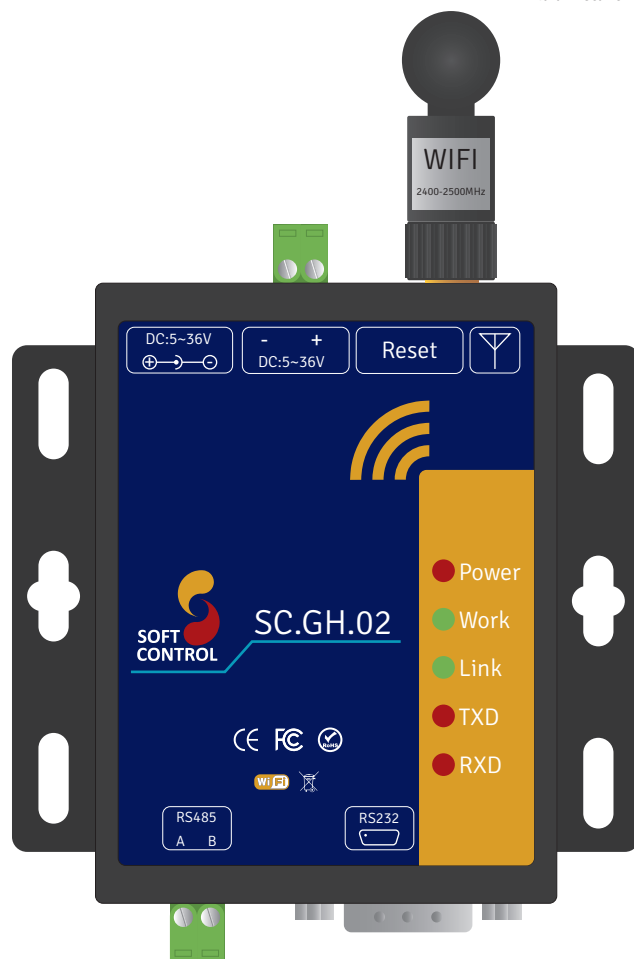
The gateway facilitates the connection of serial units over great distances via wireless network as a virtual serial port.

## Specifications

| Wi-Fi | Specification |
|---|---|
| Standard | 802,11 b/g/n |
| Transmitter effect | 802.11b: +18 +/-1dBm(@11Mbps CCK)<br>802.11g: +17 +/-1dBm(@54Mbp OFDM)<br>802.11n: +15 +/-1dBm(@HT20, MCS7) |
| Received sensitivity | 802.11b: -85 dBm(@11Mbps CCK)<br>802.11g: -70 dBm(@54Mbps OFDM)<br>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/<br>Serial commando (TTP) |

| Serial | Specification |
|---|---|
| # of ports | 2 |
| Interface standard | RS232 x 1 (9 pin D-sub)<br>RS485 x 1 (A+, B-) |
| Baudrate | RS232: 600bps til 256k bps<br>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 $\Omega$ |



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

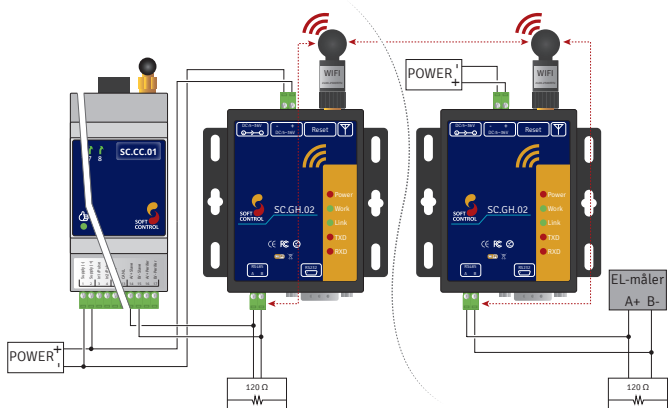| Basic parameter | Specification |
|---|---|
| Dimensions (WxHxD) | 90 x 84 x 25 mm incl. plug and terminals |
| Operational temperatures | -40 ~ 85 °C |
| Ambient temperatures | -40 ~ 85 °C, 5 ~ 95% RH |

| 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 |

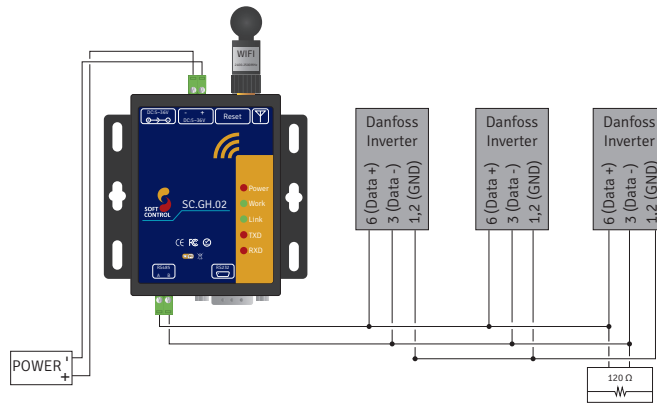| Additional | Specification |
|---|---|
| Approvals | CE, FCC, ROHS |
| Product number | 96141616 |

CleverHouse
Powered by SoftControl

# Examples of assembly diagrams
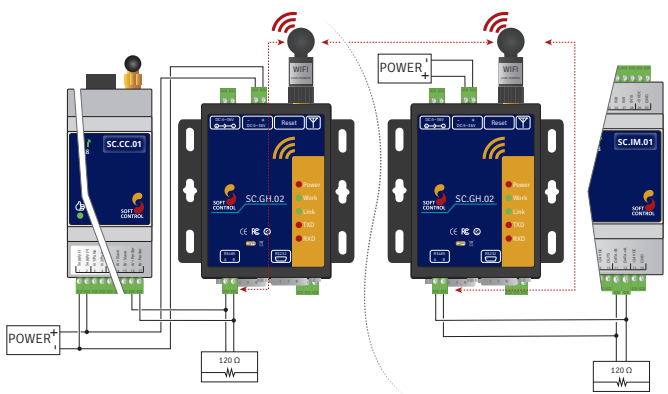
## Input - MOD-bus electrical meter

Ill. 2 - Illustration of diagram for installation of MOD-bus electrical meter

## Input - Danfoss solarpanel inverter

Ill. 3 - Illustration of diagram for installation of Danfoss solarpanel inverter

## Input - Heat control

Ill. 4 -  Illustration of diagram for installation of heat control  via SC.IM.01.

# Hardwarefejl meldt via LED indikatorer (rød + grøn)

| LED indikator | Frekvens | Indikation |
|---|---|---|
| POWER | | Power on |
| WORK | | Connecting to server |
| | | Connected to server |
| LINK | | Connected to WiFi |
| | | No connection to WiFi |
| TXD | | RS232 line communication: sending |
| RXD | | RS232 line communication: receiving |

If: TXD = → Check the internet connection (WORK = ?) - possible error in setting up the product in the system (contact SoftControl if problem pertains)

If: TXD =
+ RXD =     → Error on the RS485 communication line:
- Check A(+) and B(-) are mounted correctly
- Check all physical connections to device
- RS485 address is setup incorrectly

1 sec.

CleverHouse
Powered by SoftControl