Datasheet - 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.

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	YES

Software	Specification
Configuration	Website/setup software/ Serial command (TTP)

Basic parameter	Specifikation
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
Current	DC 5-36 V
Power consumption	90 mA @ 5 V; < 50 mA @ 12 V
Power consumption	< 1 W

Ill. 1 - Overview of SC.GH.01 (1:1).
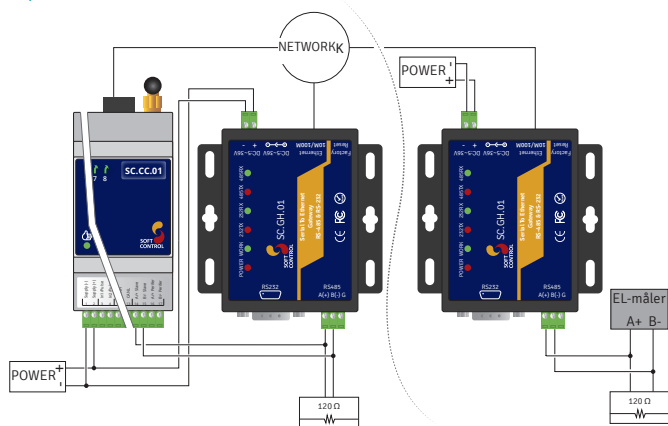
Serial	Specification
# of ports	2
Interface	RS232 x 1 (9 pin D-sub) RS485 x 1 (A+, B-)
Baudrate	RS232: 600bps - 256k bps RS485: 600bps - 256k bps
Databit	5, 6, 7, 8
Stopbit	1; 1,5; 2
Paritybit	None, Even, Odd
Flowcontrol	Hardware: RTS/CTS
Buffer	Send and receive 2 kB
Protection	RS485 2 kV ESD, lightning protection
Resistance	RS485 Pull up and -down 2,2k Ω

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

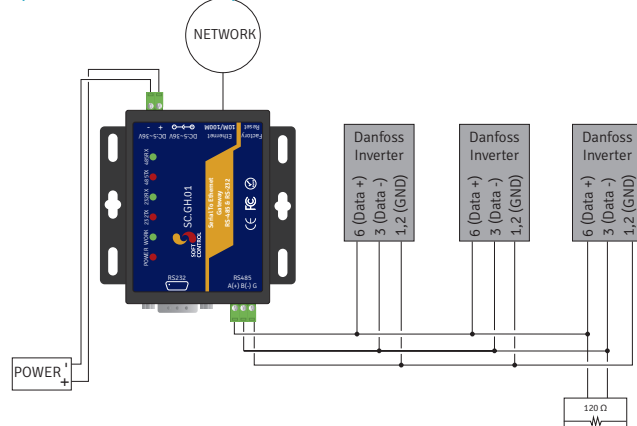| Additional	Specification
Approvals	CE, FCC, ROHS
Product number	96141615

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Examples of assembly diagrams
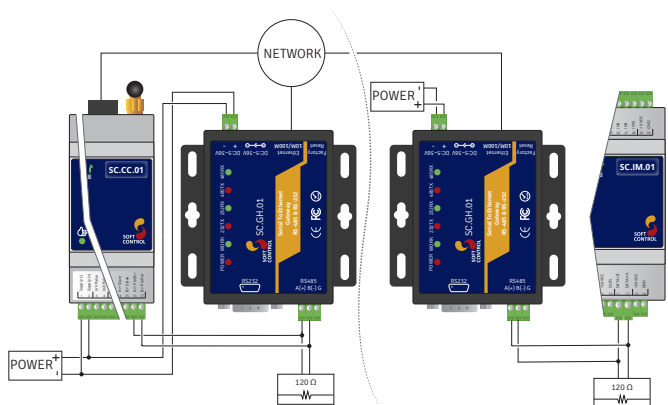
Input - MOD-bus electrical meter

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.

Hardware error reported via LED indicators (red + green)

LED beam	Frequency	Indication
POWER		Power on
WORK		Connecting to server
		Connected to server
232TX		RS232 line communication: sending
232RX		RS232 line communication: receiving
485TX		RS485 line communication: sending
485RX		RS485 line communication: receiving

If: 485TX = ➝ Check internet connection (WORK= ?). Possible setup error of SC.GH.01 to system (contact SoftControl if problem pertains)

If: 485TX =
+ 485RX =
1 sec.
➝ Error on the RS485 communication line:
- Check A(+) and B(-) are mounted correctly
- Check all physical connections to device
- RS485 address is setup incorrectly

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