SIU-SNM

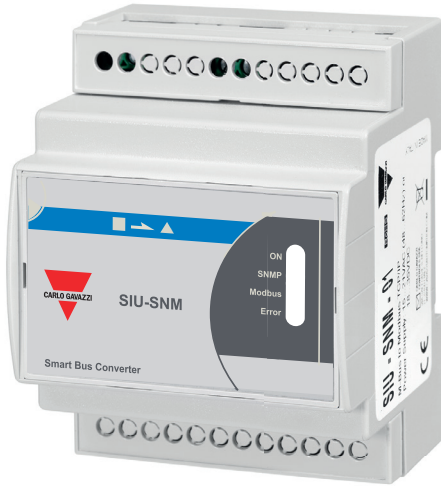## Smart Bus Converter

Benefits

• Easy and fast configuration via PC software
• Compatibility with any Modbus device
• Compatibility with SNMP v1, v2c, v3

Description

SIU-SNM is a gateway converting data gathered from Modbus devices like energy meters or power analysers to SNMP, opening up the integration of Carlo Gavazzi meters/analysers into SNMP based monitoring systems.

Applications

Data center monitoring systems: SNMP is widely used in data centers to monitor many aspects of those environments. All the data center monitoring software suites include SNMP among the main communication protocols. SNMP is the natural choice for users who need to monitor energy consumption and electrical variables in data center systems.

Main functions

• Gathering of selected MODBUS variables from a network of Modbus devices via RS485
• Allowing SNMP polling of the selected Modbus variables
• Converting the selected MODBUS variables into SNMP TRAPS on a schedule or a value change
• MIB file generation by means of PC software

Main features

• Up to 1024 bytes in reading and 1024 bytes in writing
• Bidirectional information between Modbus bus and SNMP bus

Configuration software

LAN

RS485

SIU-SNM-01
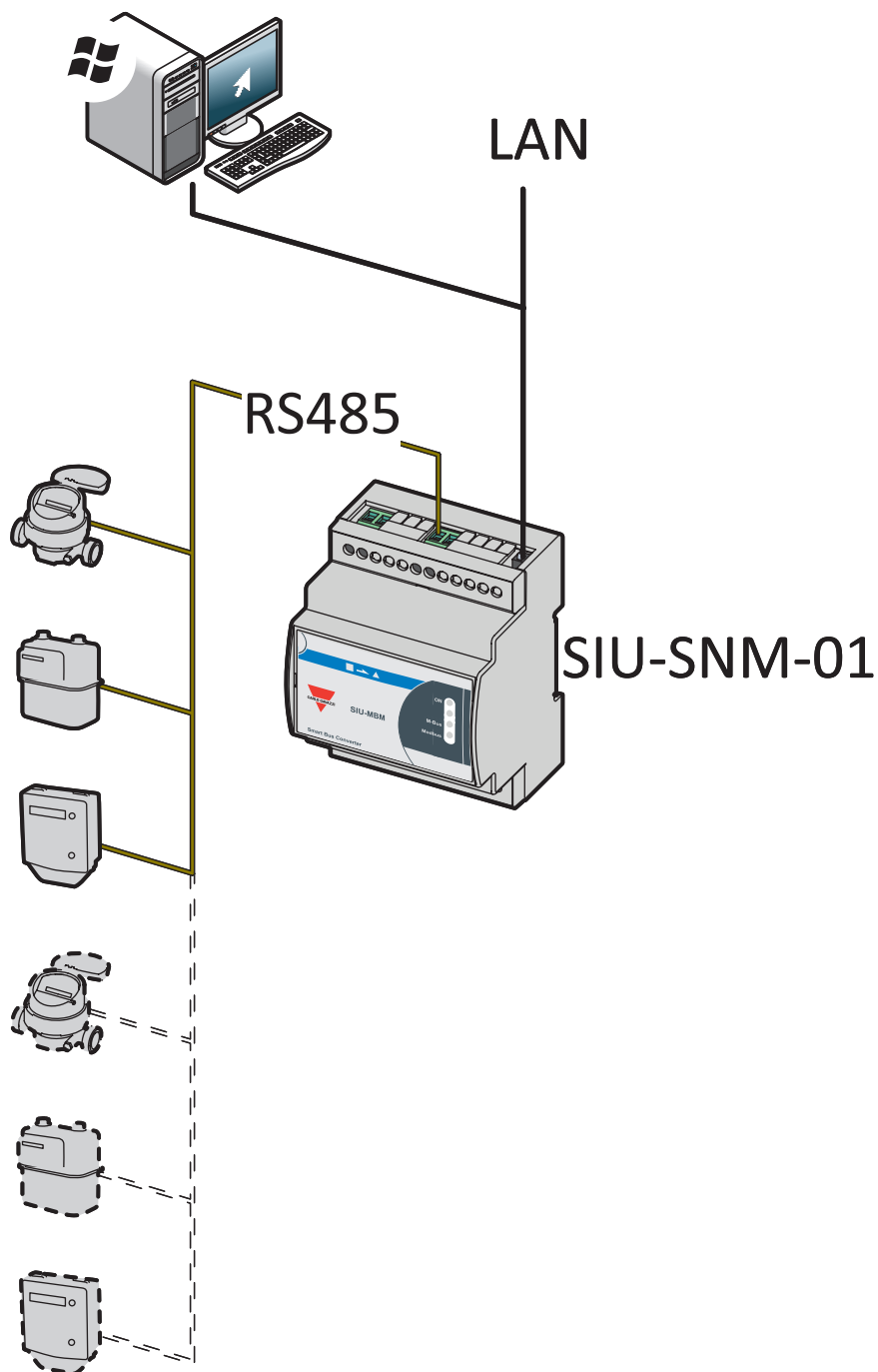
Features

▶ General

Material	PVC
Protection degree	IP20
Terminals	Cable section: from 0.5 to 3 mm^2 Torque: 0.5 Nm
Mounting	DIN rail
Dimensions (mm)	95 x 71 x 60 (H x W x D)

▶ Power supply

Power supply	From 15 to 21 V ac, from 18 to 35 V dc
Consumption	3.5 W
Connector	Screw terminals

▶ Environmental specifications

Operating temperature	From -40 to + 85 °C
Storage temperature	From -40 to + 85 °C

▶ Ethernet port

Protocols	SNMP
Connection type	RS45 connector

▶ RS485 port

Protocols	Modbus RTU
Connection type	Screw terminals
Configuration parameters	Baud rate: from 1.2 to 625 kbps Parity (None/ Odd/ Even)

▶ Conformity

Directives	2002/95/EU (RoHS - Restriction of Hazardous Substances)
Approvals	CE

Connection Diagrams

0.5 Nm

0.5-3 mm²

15–21 V ac
18–35 V dc

- +

LAN

Modbus TCP/IP Master

SIU-SNM-01

B+   A-   GND

B+   A-   GND   B+   A-   GND
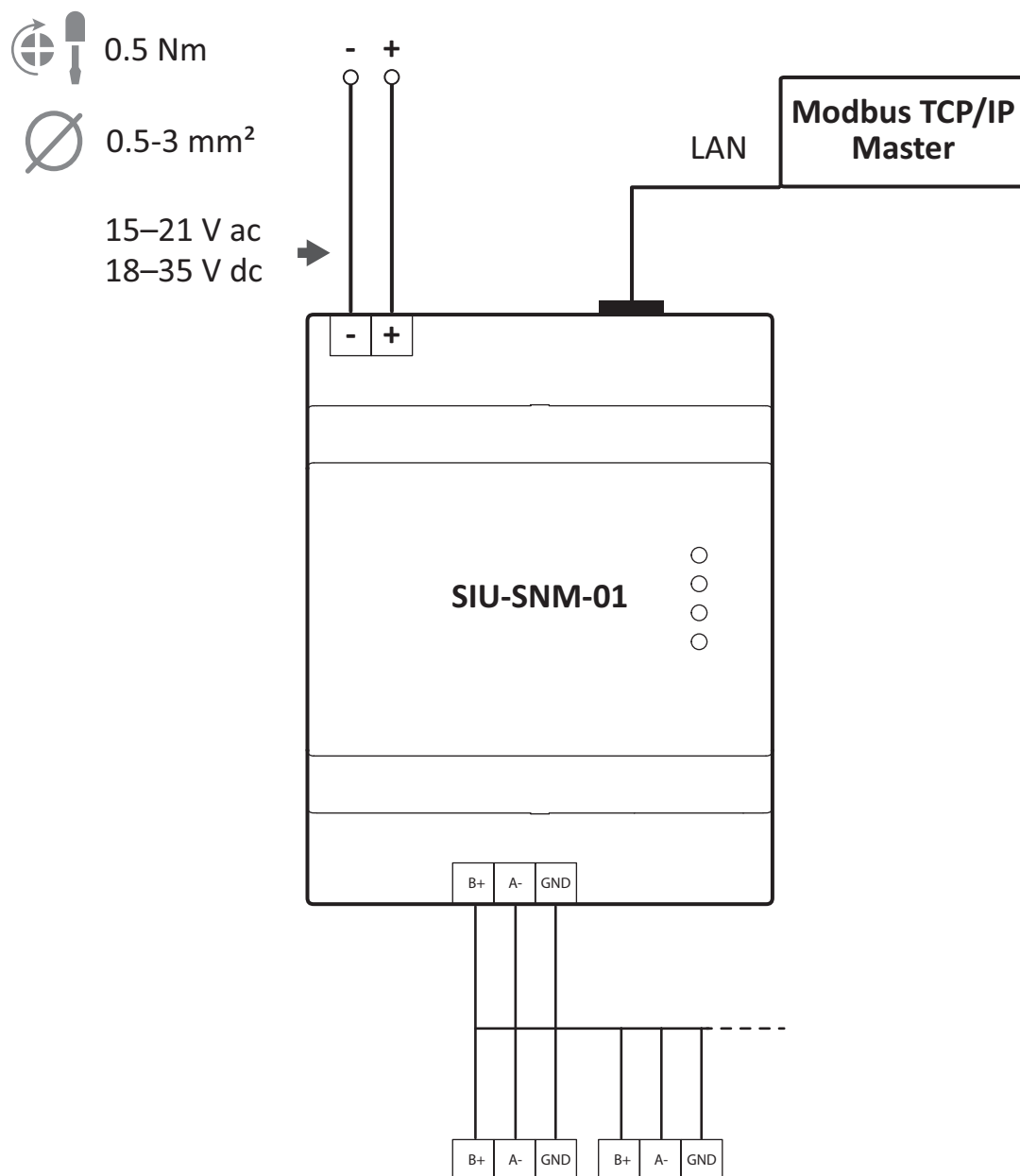
References

▶ **Further reading**

Information	Where to find it
Configuration Software	www.productselection.net/Download/UK/SIU-SNM-01_software.zip
User manual	www.productselection.net/MANUALS/UK/siusnm01_eim.pdf

▶ **CARLO GAVAZZI compatible components**

Purpose
Carlo Gavazzi Meters with RS485 and Modbus/RTU communication

How to order

▶ **SIU-SNM**

Code	Description
SIU-SNM-01	Smart Bus Converter

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