

Product information

S7 Protocol Converter

GC300T



(valid from 11/2018)

Changes to older versions of this document

- Rev. 01 → 02:** First steps outsourced to a separate document
- Rev. 02 → 03:** New front foil drawing and information for data security added
- Rev. 03 → 04:** Information for disposal of old equipment
- Rev. 04 → 05:** Web visualization option added, technical data expanded
- Rev. 05 → 06:** Modbus RTU option added, technical data extended
- Rev. 06 → 07:** Product name changed, link to Security Guideline added

Technical data

S7 Protocol Converter for 35mm DIN-rail

Standard configuration:

RS232
(for Node-RED-Projects)

RS485
(for Modbus RTU or Node-RED projects)
with- with switchable
bus terminating resistor

Ethernet with
- RFC1006
(S7-Communication,
Put/Get - active)
- Modbus TCP

CAN
(for Node-RED projects)
- with switchable
bus terminating resistor

Switch
(for operating mode)

Status LEDs for
Energy, Update, Error,
Execute

Slide-in strip
(for logo and name)
- Enables simple customer
adaptation

Scope of delivery:

Earthing terminal,
Technical data

Contains **OpenSource**
Software, provided free
of charge.

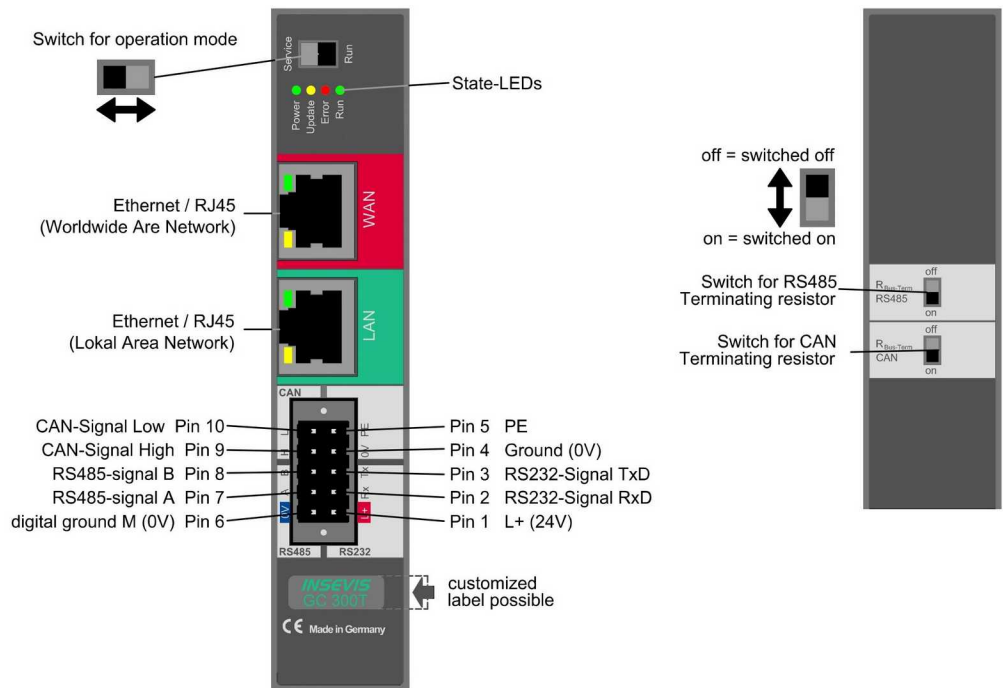


Image: view of GC300T

For handling → please see present manual S7-EDGE

Technical data	
Dimensions W x H x D (mm)	28 x 116 x 84
Cut out W x H (mm)	35mm DIN rail
Protection class	IP41
Weight	ca. 350g
Operating temperature range	-20°C ... +60°C (without condensation)
Storage temperature range	-30°C ... +80°C
Connection technology	removable connector with 2 bolt flanges aside (cage clamp technology) for cross section up to max. 1,5mm ²
Load voltage L+	24V DC (11 V ... 30V DC)
Start-up current	< 3A
Technical data CPU	
CPU-type	Type T (GC300T/TW)
internal memory	4 GByte, of which approx. 1 GByte for user data (shared media usage of WebVisu, trend, alarm/event archive, OPC UA history, NodeRED applications)
Configuration	Via integrated web configurator
Programming languages	JavaScript
Programming system	Node-RED
Serial interfaces (protocols)	COM1: RS 232 – via Node-RED COM2: RS 485 – via Node-RED or Modbus RTU
Ethernet (protocols)	ETHERNET: 10/100 MBit S7-communication (active put/get), Modbus-TCP (more by Node-RED)
OPC UA Server	Predefined namespace, compatible to S7-1500 + max. 2000 user-variables alternatively user defined namespace with external modeler (via binary data export) optionally OPC UA DI able to provide datapoints from all other interfaces including history history configurable in sample time and number of samples subscriptions: max. 8 monitored items per subscription: max. 500 monitored items total: max. 1000
SecurityPolicy	none / Basic 256 Sha 256 sign / Basic 256 Sha 256 sign & encrypt (can be enabled and disabled separately)
MQTT	Client (subscriber / publisher)
Node-RED	performance limit approx. 50 variables actualise cyclic data points from all other interfaces
CAN (protocols)	Baudrate 10 kBaud ... 1 MBaud – via Node-RED
Data security	open source packages OpenSSH and OpenVPN

Order data of the assemblies	
Product designation	Order-No.
S7 Protocol Converter GC300T	GC300T-0-03
S7 Protocol Converter GC300TW (with optional web visualisation - cannot be retrofitted)	GC300TW-0-03

Order data of the accessories	
Product designation	Order-No.
Connector 2x5polig (Bolt flanges	E-CONS10-00

Qualified personnel

All devices described in this manual may only be used, built up and operated together with this documentation. Installation, initiation and operation of these devices might only be done by instructed personnel with certified skills, who can prove their ability to install and initiate electrical and mechanical devices, systems and current circuits in a generally accepted and admitted standard.

Manuals, sample programs

Additional documentation by manuals is available as well sample applications at the download area of www.insevis.com in English language for free download.

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Security Guideline

A guide on how to use this product to ensure compliance with the Cyber Resilience Act (CRA) can be found on the INSEVIS website at: [INSEVIS Security-Guideline](#) or on request at info@insevis.de.

Disposal

Do not throw old appliances in the household waste! In the interest of environmental protection, old appliances must be collected separately from unsorted municipal waste. You can find out more about the proper disposal / return of your old appliance at www.insevis.com/disposal.

Attention: The deletion of personal data on the old devices to be disposed of is the responsibility of the end user.

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