Product information

IIoT Gateway

CC300T

(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

Technical data

**S7-IIoT-Gateway
for 35mm DIN-rail**

Standard configuration:

Ethernet with
- RFC1006
  (S7-communication),
- Send/ Receive via
  TCP and UDP,
- Modbus TCP

Run/Stop switch

State LEDs for
  Power, Battery, Error, Run

Inserting stripes
- for Logo and identification
  (thereby customized
  adaption possible easy)

on demand :

RS232 with
- Modbus-TCP

RS485 with
- Modbus RTU
- with switchable teminate
  resistors for RS485

CAN
- protocol compatible to
  - CANopen®
- with switchable teminate
  resistors for RS485

Scope of delivery:
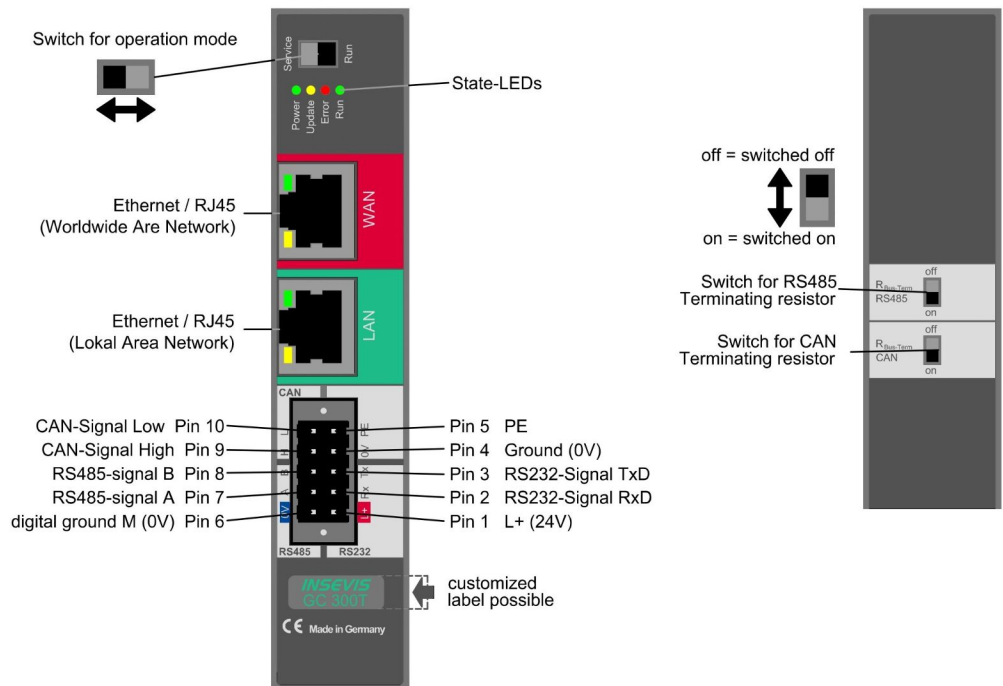- Grounding terminal
- Technical data sheet

Switch for operation mode

State-LEDs

Ethernet / RJ45
(Worldwide Are Network)

Ethernet / RJ45
(Lokal Area Network)

CAN-Signal Low Pin 10 — Pin 5 PE
CAN-Signal High Pin 9 — Pin 4 Ground (0V)
RS485-signal B Pin 8 — Pin 3 RS232-Signal TxD
RS485-signal A Pin 7 — Pin 2 RS232-Signal RxD
digital ground M (0V) Pin 6 — Pin 1 L+ (24V)

RS485   RS232

customized
label possible

CE Made in Germany

Image: view of GC300T

off = switched off

on = switched on

Switch for RS485
Terminating resistor

Switch for CAN
Terminating resistor

For handling → please see present manual S7-IIoT-Gateway

Technical data

Dimensions W x H x D (mm) Cut out W x H (mm) Protection class Weight	28 x 116 x 84 35mm DIN rail IP41 ca. 350g
Operating temperature range Storage temperature range	-20°C ... +60°C (without condensation) -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** (GC300**T/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 Programming system	JavaScript Node-RED
Serial interfaces (protocols)	COM1: RS 232 (via Node-RED) COM2: RS 485 (via Node-RED)
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-IIoT-Gateway GC300T	GC300T-0-03
S7-IIoT-Gateway GC300TW (with optional web visualisation - cannot be retrofitted)	GC300TW-0-03

Order data of the accessories

Product designation	Order-No.
Steckverbinder 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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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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