

RTU560G

Remote Terminal Unit for DIN rail

The RTU560G with its compact housing and cost-efficiency is designed for small and medium applications.



One solution for various applications

The open architecture of the RTU560G supports different applications:

- Remote Control
- Substation Automation
- Communication Gateway
- Distribution RTU and Feeder RTU

The RTU560G is completely integrated into the RTU560 system family and uses the same engineering tools. Currently it is available in two different versions, as 560CIG10 with integrated I/Os and as 560CMG10 as gateway for external I/Os. The web-based diagnosis and maintenance interface, the powerful PLC acc. IEC 61131-3 and the reliable integrated HMI are also features of the RTU560G. Designed for harsh environments the RTU560G is applied in electrical and pipeline networks. The pipeline networks include applications for gas, oil, water, waste water and district heating.

Your benefits:

- Cost effective and compact DIN rail solution with full RTU560 functionality
- Designed for hazardous environments
- Wide temperature range
- Integrated Inputs and Outputs
- Extension I/O modules available
- Up to 750 data points

Data communication

The RTU560G is easily adaptable to various communication structures. It supports different communication media and a wide range of communication protocols such as IEC 60870-5-101/-104, DNP3 (serial and TCP/IP), IEC 61850, MODBUS (serial and TCP/IP) and many more.

Redundant communication

- The redundancy concept in LAN/WAN networks insures high availability and reliability
- Support of redundant serial communication links (dial-up can be used as backup)

Flexible communication concept

- Integration into complex LAN/WAN networks which can be used for remote configuration and diagnosis
- Wireless communication (e.g. GSM/ GPRS modems)
- Use of dial-up connections
- Efficient use of existing cable infrastructure with leased line modems
- Interfaces to other external communication equipment

IEC 61850 Client

The RTU560G can interface to IEDs via IEC 61850. The RTU560 is the ideal candidate for hybrid solutions, found in many retrofit projects. The RTU560 combines the capability to interface to parallel inputs and outputs, serial IEDs and the new state of the art station bus IEC 61850.

IEC 61850 Server

The RTU560G can also be used as IEC 61850 server. This allows to interface hard-wired information and serial IEDs to IEC 61850 station bus. The IEC 61850 server of the RTU560 supports GOOSE messages.

Integrated Human Machine Interface

The Human Machine Interface provides monitoring and control. The data engineering is simplified since the data points have to be entered only once.

PLC Functions

The RTU560G fully complies with standard IEC 61131-3. The PLC can be used to implement additional automation functions.

The PLC package allows programming in 5 different languages:

- Function Block Diagram (FBD)
- Ladder Diagram (LD)
- Sequential Function Chart (SFC)
- Instruction List (IL)
- Structured Text (ST)

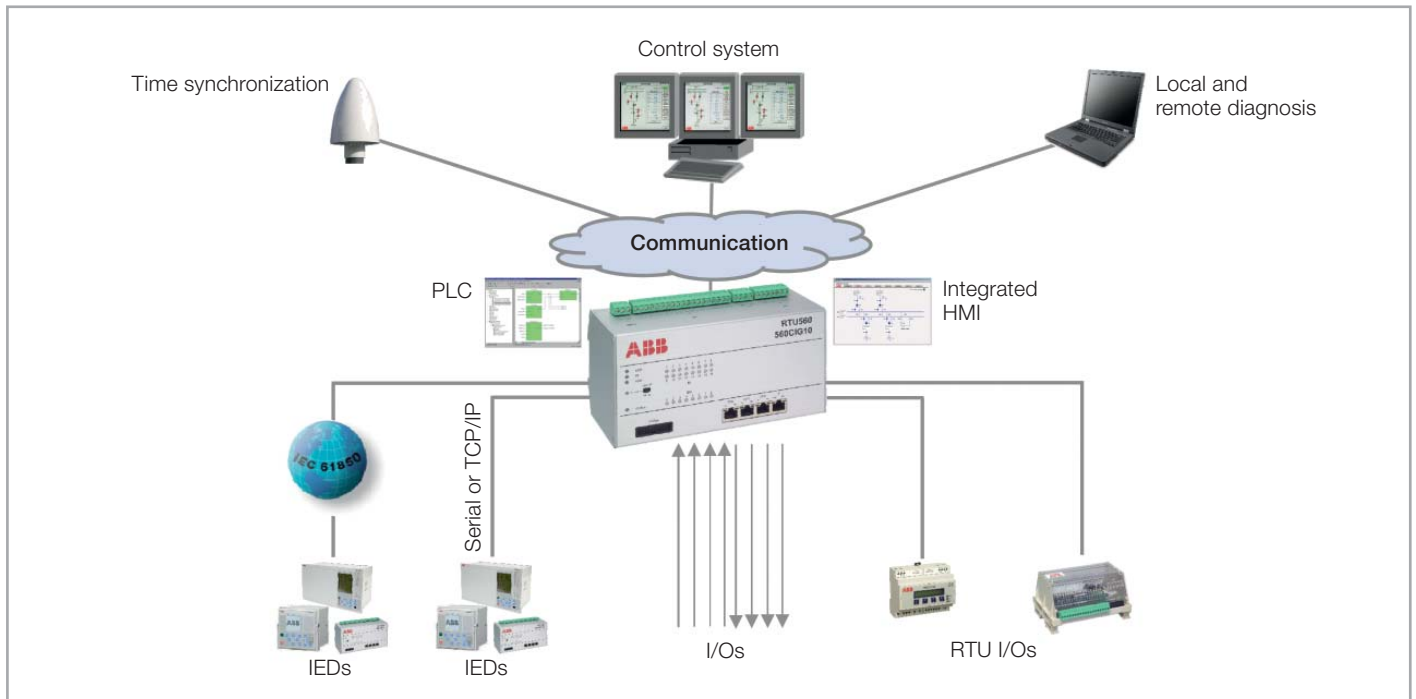
Diagnosis

RTU560G diagnosis is based on a highly reliable web server technology. Therefore no special software tools are required to trouble-shoot the RTU. Disturbance files (uploaded from IEDs) and sequence of events are accessible via this technology. This function is local and remote available.

Time stamping

The RTU560 has a 1ms time resolution and can be synchronized via protocols like IEC 60870-5-101/-104, DNP3 or via SNTP.

Technical Data	560CMG10	560CIG10
Rugged metal housing for DIN rails	x	x
Serial interfaces	3	3
Ethernet 10/100 BaseT	1	1
Integrated I/Os:		
- Binary inputs		16
- Binary outputs		8
- Analog inputs		8
Extension I/O modules:		
- Binary inputs	x	x
- Binary outputs	x	x
- Analog inputs	x	x
- Analog outputs	x	x
- Direct analog inputs	x	x
(optional: Fault current detection)		



RTU560G application

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