Remote Terminal Unit for DIN rail. The RTU560G with its compact design and cost-efficiency is intended for medium and small RTU applications.

**One solution for various applications**
The open architecture of the RTU560G supports adaptation to different applications:
- Remote Control
- Substation Automation
- Communication Gateway
- Distribution RTU and Feeder RTU

The RTU560G is completely integrated into the RTU system family of ABB and uses the same data engineering tools. Furthermore, it has the same web-based diagnosis and maintenance interface, the powerful PLC acc. IEC61131-3 as well as the reliable Integrated HMI.

**Benefits:**
- Cost effective DIN rail solution with full RTU560 functionality
- Compact design
- Designed for hazardous environments
- Wide temperature range
- Various I/O modules available
Communication
The RTU560G is easily adaptable to various communication structures. It supports different communication media and a wide variety of communication protocols such as IEC 60870-5-101/-104, DNP3, IEC 61850, MODBUS and many more.

Communication Media:
- Major benefits due to the integration into complex LAN/WAN networks. The LAN/WAN network can be used for remote configuration and diagnosis.
- Wireless communication (e.g. GSM/ GPRS modems)
- Dialed line connections
- Efficient use of existing cable infrastructure with leased line modems
- Interfaces to other external communication equipment

Redundant Communication:
- The redundancy concepts in LAN/WAN networks insure high availability and reliability
- Supports redundant serial communication links (dialed line can be used as backup)

Diagnosis
RTU560 diagnosis is based on a highly reliable web-server technology. The precise analysis of disturbances can be realized with PC and web-browser. The remote access to this function reduces considerably disturbance times. For commissioning and trouble shooting the RTU560 provides logging of communication protocols to control systems and sub-devices. This function is local and remote available.

Integrated Human Machine Interface
The web-server technology allows us to integrate a Human Machine Interface into the RTU. This HMI can be used for monitoring and control. Integrating this function into the RTU reduces the amount of interfaces and therefore simplifies data engineering, since the data points have to be entered only once.

PLC Functions
The RTU560G fully complies with standard IEC 61131-3. The PLC is usable to implement additional automation functions.

The PLC package allows programming in the 5 languages:
- Function Block Diagram (FBD)
- Ladder Diagram (LD)
- Sequential Function Chart (SFC)
- Instruction List (IL)
- Structured Text (ST)

IEC61850
RTU560G can interface to IEDs on IEC61850 station bus. The RTU560 is the ideal candidate for hybrid solutions, found in many retrofit projects. The RTU560, in this substation automation environment, combines the capability to interface to parallel In/Outputs, serial IED-connections and the new state of the art station bus IEC61850.

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
The Basic Module 560CMG10 disposes of:
- Rugged metal housing for DIN rails (204mm x 105mm x 55mm)
- Designed for hazardous environments
- 3 serial interfaces
- 1 Ethernet 10/100 BaseT
I/Os are available for:
- Binary inputs (24 – 220 V DC)
- Binary relays outputs
- Analog inputs (mA)
- Analog outputs (mA)
- Direct analog inputs (1/5 A AC, 100 V AC)

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