

RTU560E Remote Terminal Unit



Applications:

The Remote Terminal Unit RTU560E is an integral part of the remote terminal unit RTU560.

It is well suited for applications with small and medium-sized data point volumes, for instance in local network stations or in small distribution substations.

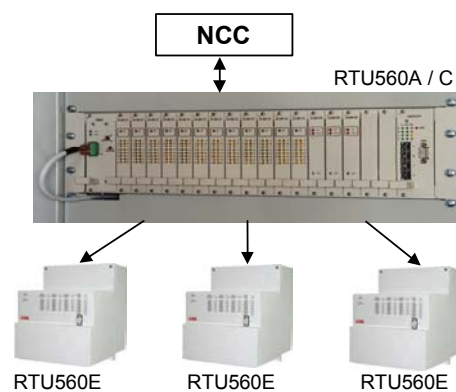
Due to the compact design and the flexible configuration possibilities the RTU560E is suitable for centralized or de-centralized system architectures.

For gas and oil networks the RTU560E is well suited for these types of applications:

- Pipeline leak detection and block valve control, pipeline flow measurement
- Oil well monitoring and control
- OEM applications requiring versatility, accurate calculations, data storage or custom protocols

Characteristics of the RTU560E:

- Compact design
- Cost-efficient and economic solution
- Customer specific configurations
- Modular design



Technical data:

Design:

The system components of the RTU560E, the power supply unit (560PSU80/81), the CPU unit (560CPU80) and the Multi I/O-cards (560MIO80) are assembled in an enclosed plastic housing. Depending on the system concept the housing can be equipped with up to 4 Multi I/O-cards. By means of an extension bus it is possible to configure de-centralized architectures with up to 27 I/O-cards in total.

For the connection to superior RTU560 communication nodes or control systems or to subordinate communication lines up to 3 communication ports are available. As an option, an Ethernet interface can be added.

Housing (560HOS80):

Dimensions: 366 x 258 x 310 mm
(HxWxD)

Type of protection:

EN 60950 and 50178; IP 30

Central Processing Unit (560CMU80):

- CPU ELAN 400 @ 66 MHz
- 4 MB DRAM (optional 16MB)
- 2x RS232 interfaces, 50 ... 38400 Baud
- optional 2 modem slots
- 1x RS485 interfaces up to 19200 Baud
- MMK interface (serial connection to the internal Web-Server)
- Ethernet interface 10BaseT (optional)

Multi I/O card (560MIO80):

- Process voltage ranges:
24 ... 60 V and 110 ... 220 V DC
- 16 binary inputs
- Input current 1 mA, max. 3 mA
- 2 counter inputs max. 8 kHz
- 8 binary outputs
- 4 analog inputs

Fiber optical coupler (560FOC80):

- Input voltage ranges: 5 ... 24 V
- Emission wave length: 850 m
- Input optical power:
min. -24.0 dBm
max. -10.0 dBm
- Transmission rate: 1 MBit max.
- Marking condition: adjustable

Power supply:

Input voltage ranges:
560PSU80 DC/DC 24 ... 60 V DC or
110 ... 220 V DC
560PSU81 AC/DC 110 ... 230 V AC

Communication:

- IEC 60870-5-101/102/103/104
- Modbus
- SPA
- DNP3.0
- RP570/71

Functionality:

- PLC 61131
- Archive
- Flow calculation for turbine flow measurement with AGA 8 density calculation (other standards on request)

Modems:

- analog dial-up modem
- V.23 modem
- GSM modem

Temperature range:

-20 ... +70° C

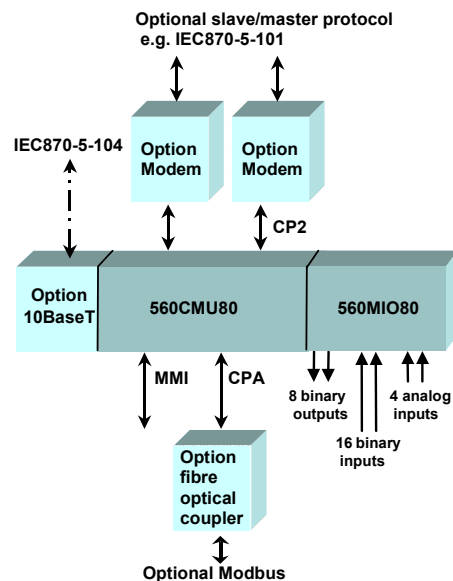


ABB Process Industries GmbH

DEPID/CTP
P.O. Box 10 02 61
D-68002 Mannheim/Germany
Phone: +49 (0) 621 381-6500
Fax: +49 (0) 621 381-7737
e-mail: karl.schaefer@de.abb.com