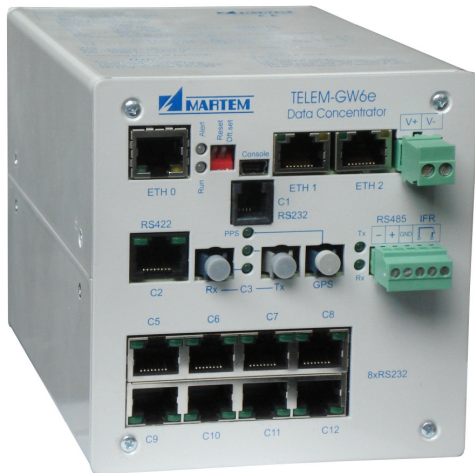


Data concentrator TELEM-GW6e



Data Concentrator TELEM-GW6e is used for:

- Control and monitoring operations of a system from control center via IEC 60870-5-101 and IEC 60870-5-104 communication protocols
- Data collection from lower level peripheral devices and for controlling them using various data exchange protocols
- Cross-referencing of data exchange protocols
- Creating transparent TCP/IP channels for remote connections to various equipment (for remote handling of various equipment)

Main features

- Built-in 3x Ethernet connections, GPS time synchronization port and console port
- Transparent TCP/IP connections via Ethernet and serial ports
- Cross-referencing of data exchange protocols
- User friendly configuration tool
- Firewall functionality
- VPN and IPsec connections
- Configurable remotely over communication line
- Fiber-optic serial, fiber optic GPS, RS-422 and RS-485 connections expansion card with internal fault relay contact
- 8 x RS-232 connections expansion card
- Real-time clock with back-up capacitor

Data communication protocols

To upper level systems	IEC 60870-5-101 balanced or unbalanced, IEC 60870-5-104
To lower level devices	IEC 61850, IEC 60870-5-104, IEC 60870-5-103, IEC 60870-5-101 unbalanced, Modbus-RTU, Modbus-TCP, IEC 62056-21 (IEC 1107), SPA-bus

Communication ports

Communication ports may be freely configured for upper or lower level communication

- Built-in
 - 3 x Ethernet connection with RJ45 connector
 - 1 x RS-232 serial connection with 4P4C connector
 - 1 x Console mini USB port
- Expansion card 1
 - 1 x Fiber-optic connection with ST or Versatile link connectors
 - 1 x GPS Fiber-optic connection with Versatile link connector
 - 1 x RS-422 serial connection, galvanically isolated
 - 1 x RS-485 (2-wire) serial connection, galvanically isolated
 - 1 x Internal fault relay contact

- Expansion card 2
 - 8 x RS-232 serial connections with RJ45 connectors

Serial data communication parameters

- Odd, even or no parity
- Communication rates from 300 to 115200 bit/sec

Electrical characteristics of isolated inputs

Dielectric withstand	IEC 60255-5
Withstand to static discharge	IEC 61000-4-2
Withstand to surges, bursts	IEC 61000-4-4, 61000-4-5
Power frequency magnetic field	IEC 61000-4-8
Voltage dips, variations	IEC 61000-4-11

Radio frequency compatibility

RF emission	IEC 55022 Class A
Immunity to RF fields	IEC 61000-4-3, 61000-4-6

Mechanical and environmental parameters

Degree of protection	IP 30
Dimensions (WxHxD)	108x110x165 (190 with protruding parts) mm
Mounting	DIN rail
Ambient temperature in operation	-30...+40 °C
Relative humidity	90% non-condensing

Power supply

Supply voltage range	10 to 72 V DC
Power consumption	< 8 VA

Configuration

The Telem-GW6e is adapted to specific application by using the configuration software tool Telem-GWS. This tool is used for configuration of the communication ports, devices, measurement objects, and basic parameters. The logical formulas can be created using both digital and analog measurement objects as operators. Configuration parameters are saved in tar.xz compressed format file. Configuration export and import to .CSV files (comma separated values file or using the Excel)