

XEA300

Universal telecontrol substation for distributed process control systems

XEA300 is a modular system which can be freely parameterised for the optimal solving of telecontrol and automation tasks. Its modular architecture and cascability make XEA300 a flexible and universally usable system.



Features XEA300

- ▶ Time synchronisation DCF77, GPS, 60870-5-101/104, NTP, IEEE 1588 / PTP
- ▶ 16 message and counting pulse inputs per card, 24 to 60 V DC
- ▶ 8 (2x4) analog inputs per card, +/- 0-10 V, +/- 20 mA, 4-20 mA
- ▶ 4 analog outputs per card, +/- 0-10 V, +/- 20 mA, 4-20 mA
- ▶ 8 digital relay/command outputs per card, single pol. / configurable, 1.5 pol. or 2 pol., up to 60 V DC
- ▶ Remote parameterisation, remote diagnosis
- ▶ PLC functionality / PLC5, IEC 61131-3 /FBD
- ▶ IEC 60870-5-101/104 Slave
- ▶ IEC 60870-5-103 Master
- ▶ IEC 61850
- ▶ Profibus field bus coupling

The XEA300 telecontrol system with its modular I/O level is configured for 19" mounting. All components (power supply, processor and communication units, I/O units) are configured as modules and linked via the system bus. With its Profibus interface, the system supports the connecting of external systems and field bus units.

This system distinguishes itself by its flexibility and modularity up to the decentralisation of I/O units. PLC5, the PLC function implemented in the system, also makes it possible to implement automation functions as well as telecontrol functions. All functions are implemented according to the principles of a DCS (Distributed Control System).

TECHNICAL DATA

Order Number	XEA300
CPU	400MHz ARM926EJ-S
RAM	64 MB
System Memory	SD card
Interfaces	2x Ethernet (RJ45 socket) 100 Mbit/s 1x Profibus (9pol.Sub-D-socket f.) up to 12 MBaud 1x RS232, expandable by 4-fold serial interface module RS232
I/O Cards	with front connectors, pluggable in cage clamp technique
Racks	14 slots, 12 free I/O slots cascadable
Power Supply	Supply voltage: 18-36 V DC Current consumption: 2,5 A Power consumption: 60 W
Dimensions	483 x 130 x 170 mm (84HP, 3RU)
Protection Class	IP20
Ambient Area	Working temperature: -25° C to 70° C Storage temperature: -40° C to 80° C Relative humidity: <90 % (not condensed)
Fulfilled Standards	EMC-Standard: IEC 61000-4-2 Class B Isolation: Supply Voltage: EN60870-2-1 Class VW3 Digital Input/Output: EN60870-3 Class 3 Analog Input/Output: EN60870-3 Class 2 Impulse: Supply Voltage: EN60870-2-1 Class VW3 Digital Input/Output: EN60870-3 Class 3 Analog Input/Output: EN60870-3 Class 2