Telecontrol and automation system EP800

Economic – compact – intelligent

Our modular telecontrol and automation system **EP800** offers optimum flexibility, user-friendliness and conformity with standards. **EP800** electronic assemblies are equipped with latest microelectronics. This guarantees great efficiency, comfortable maintainability and a high level of reliability.

EP800 is a modular and extremely compact automation and telecontrol system. complies with standards. **EP800** can also be used and combined with many third-party systems.

Our compact **EP800** unites high functionality with clever mechanics. We adapt the system exactly to your requirements – inch by inch

Manifold central units are available with our **EP800** series. These are on the one hand central units for I/O systems and on the other central units with PLC functionality.

EP800 central units

Our very compact central modules are the interface between process level and supervising control system. Every I/O signal is transferred to the CPU modules via the fast internal backplane.

Features

- Different telecontrol and field bus protocols (IEC 60870-5-104 server, PROFINET device, Modbus® TCP server)

- Up to 64 I/O modules for each central module

- Physical address on the front in plain text

- Galvanic isolation between communication level and sensor/actor level

- No data loss in case of communication breakdown, data buffer stores 30,000 information objects (only available for central units with IEC 60870-5-104 telecontrol interface)

- Multi-client operating mode, up to 4 IEC masters can be addressed (only available for central units with IEC 608070-5-104 telecontrol interface)

PROFINET®

IEC 60870-5-104

Modbus

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[1] Modbus® is a registered trademark of Schneider Electric, licensed to the Modbus Organization, Inc.

EP800 PLC

High-performance automation controllers of the **EP800** series are the central element of automation systems. The modular **EP800** system is perfectly suited for use in small to medium-sized automation tasks and its SPEED7 chip is one of the fastest automation CPUs worldwide. Thanks to its modular structure, you can extent memory by simply changing the SD card. Furthermore, you can use communication interfaces to connect additional controls and operating panels or to exchange information with supervising control systems. Every I/O signal is transferred to the central unit via the fast internal backplane and available in these modules for automation tasks.
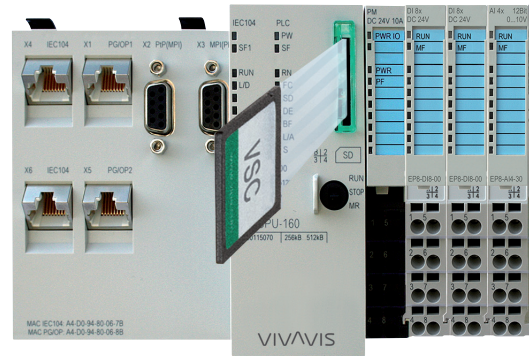
EP800 RTU with PLC function

Features

- *Ethernet PG/OP interface*
  The interface is integrated by default. It serves to connect programming devices and enables flexible communication with touchscreens or panel PCs.

- IEC 60870-5-104 server[1] or PROFINET controller[2]
  [1] EP8-CPU-160 provides a server telecontrol interface in compliance with IEC 60870-5-104.
  [2] EP8-CPU-200 provides a high performance and flexible PROFINET controller to connect up to 128 PROFINET devices.

- *Free choice of programming environment*
  Use the engineering tool you know best – SIMATIC manager, TIA Portal or SPEED7 Studio. There are and will be no restrictions!

- *Serial interface*
  Another standard of our PLC assembly: ASCII, STX/ETX, USS, 3964(R), MPI and MODBUS RTU master/slave

- *PROFIBUS interface*
  You may also release a PROFIBUS master/slave interface by means of an SD card.

- *Web interface*
  All of our CPUs provide a web interface. You can use this interface to read diagnostic information and states of the assembly.

- *Replaceable power module*
  A power module is included and connected to your CPU. This pluggable electronic module can easily be replaced if required.

- *SD cards and SD card lock*
  The use of SD cards and our unique SD card lock increase performance and security.

- *High-speed backplane*
  Our high-speed backplane with 48Mbps enables very short reaction times.
  You can add up to 64 I/O modules to each CPU module.

- *Expandable main memory*
  In the basic version, our CPU assemblies provide 256KB main memory (128KB code, 128KB data).
  However, you can expand the main memory to 512KB with SD cards.

- *No loss of data*
  EP8-CPU-160 provides a data buffer that stores 30,000 information objects and thus prevents your data from getting lost in case of a communication breakdown.