

CP-400-PRO — PLC Central Processor Unit

Innovative-Parts AG | Control Systems Division
Article No.: CP-400-PRO | EAN: 4012345678903

Overview

The CP-400-PRO is a compact, high-performance central processor unit for modular programmable logic controller systems. With 16 integrated digital inputs and 16 digital outputs, it is suitable for small to medium-sized automation tasks as a standalone controller or as the CPU module in a rack-based system. The integrated Ethernet/IP interface enables seamless integration into modern industrial network architectures.

Application Areas

- Machine automation and process control
 - Building and factory automation
 - Integration into Ethernet/IP-based control networks
 - Stand-alone controller for distributed installations
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Technical Specifications

Processing

Parameter	Value
Processing time for binary operation (1K)	0.08 ms
Program memory	256 kByte (flash)
Data memory	128 kByte SRAM
Additional program memory possible	Yes (via SD card slot)
Type of memory (EF002996)	Flash / SRAM
Memory size (EF002997)	256 kByte
With display	No

Digital I/O

Parameter	Value
Number of digital inputs (EF001992)	16
Number of digital outputs (EF001993)	16
Number of analogue inputs	0 (expansion modules available)
Number of analogue outputs	0 (expansion modules available)
Number of relay outputs	0

Communication Interfaces

Interface	Details
Number of HW-interfaces industrial Ethernet (EF003020)	2 × RJ45 (10/100 Mbit/s, integrated switch)
Number of HW-interfaces USB (EF003025)	1 × USB-A (programming / data logging)
Number of HW-interfaces RS-232 (EF003021)	1
Number of interfaces PROFINET	0 (not supported on this variant)

Supported Protocols

Protocol	Supported
Supporting protocol for EtherNet/IP (EF007521)	Yes
Supporting protocol for Modbus TCP	Yes
Supporting protocol for TCP/IP (EF003050)	Yes
PROFINET IO	No
Supporting protocol for PROFIBUS	No
EtherCAT	No

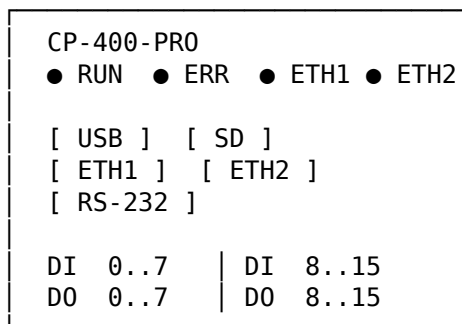
Power Supply

Parameter	Value
Voltage type (supply voltage) (EF002991)	DC
Supply voltage DC (EF007534)	24 V DC (20.4 ... 28.8 V)
Power consumption	approx. 6 W (fully loaded)

Mechanical & Mounting

Parameter	Value
Suitable for rail mounting	Yes — 35 mm DIN rail (EN 60715)
Wall mounting / direct mounting	Yes
Rack-assembly possible	No
Width (EF000008)	80 mm
Height (EF000040)	120 mm
Depth (EF000049)	75 mm
Degree of protection	IP20
Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-25 ... +70 °C

Front Panel Layout



System Accessories

Compatible with the IP-400 expansion bus for analogue I/O, additional digital channels, and communication modules. Rack assembly for up to 8 expansion modules.

Software & Programming

- IEC 61131-3 programming (LD, FBD, ST, IL, SFC)
 - Compatible with IP-WorkShop Pro v4.x and higher
 - Firmware update via USB or Ethernet
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Approvals & Certifications

- CE (EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU)
- UL 508 listed
- RoHS compliant
- ATEX: Not rated for hazardous locations

Innovative-Parts AG — Industrial Controls Division
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