03-DIN

03-DIN-CPU

Description
The 03-DIN-CPU is a fully programmable native BACnet® Building Controller. As the primary integration engine of the O3 system, the 03-DIN-CPU contains memory storage and external communication ports as well as the control logic for the expansion modules. The 03-DIN-CPU can support up to 4 expansion modules.

The 03-DIN-CPU supports multiple communication methods, including BACnet/IP, BACnet over Ethernet, BACnet MS/TP and Delta LINKnet.

Specifications

BACnet Device Profile
BACnet Building Controller (B-BC)

Device Addressing
Software addressed

Connectors
Removable screw-type terminal connectors

Wiring Class
Class 2 / SELV

Power
24 VDC, 100W max

Power Out
1 24 VDC switched Power Out port
Short circuit protected
Overcurrent protected
2 24 VDC unswitched Power Out ports

Application
The O3 system is a complete solution that combines HVAC, access control and lighting control in a modular system. It combines multiple protocols and I/O points in one unit.

The O3 system improves room control, avoids duplicate devices and offers a satisfying occupant experience at a lower energy cost.

Features

- Fully programmable
- BACnet/IP, BACnet over Ethernet and BACnet MS/TP communication ports
- Dual Ethernet ports
- Modular, expandable I/O. Modular design provides flexibility, ease of service and reduces cost of future upgrades.
- Advanced fault detection and diagnostics
- Firmware upgrade and database load/save over the network
- LED indicators for device status, NET and Ethernet ports
- USB expansion ports
- DIN rail mountable (EN 50022-35x7.5)
Specifications (Continued)

Technology
- ARM Cortex-A8
- 32-bit 600 MHz RISC CPU
- 4 GB eMMC Flash memory
- 256 MB DDR3L RAM
- Real-time clock
- Ultracap power backup for RTC and CPU

Communication Ports
- 2 Ethernet (10/100-Base T)
- BACnet/IP, BACnet over Ethernet
- 3 RS-485 Ports supporting:
  - BACnet MS/TP up to 76800 bps, max 16 devices per O3-DIN-CPU on MS/TP
  - Delta LINKnet up to 76800 bps, max 8 eZNS devices per O3-DIN-CPU on LINKnet
- 2 USB 2.0 Host ports
- O3BUS port
- Bluetooth Low Energy (Version 4.2)

Ambient
- -30° to 55°C (-22° to 131°F)
- 10 to 95% RH (non-condensing)

Dimensions
- 108 x 111 x 58 mm
  (4.25 x 4.37 x 2.28 in.)

Weight
- 193 g (0.425 lb)

Enclosure Protection Rating
- IP20

Compliance
- CE
- FCC

Listings
- UL 916 Listed

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