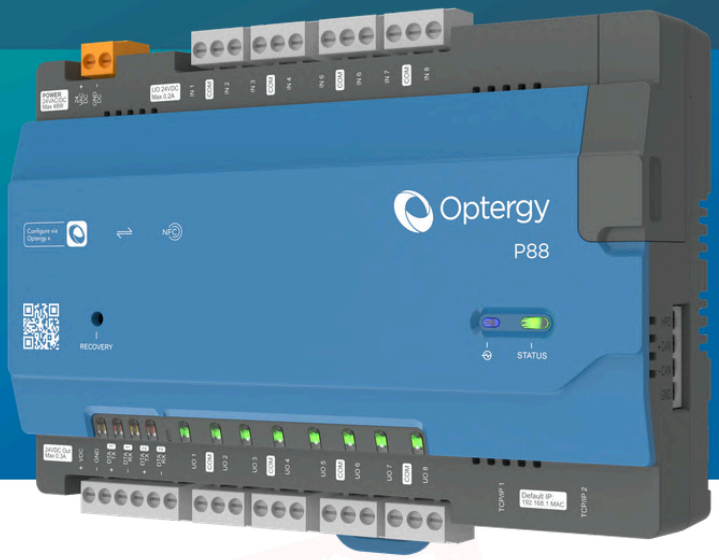
Optergy
Edge

P88

Optergy's most powerful programmable controller yet for demanding plant and AHU applications. Modern, secure hardware delivers fully universal inputs and outputs plus a high-speed expansion bus, for uncompromising control that scales to the largest projects.



CAN BUS EXP

Compatible with:

- Optergy's **new** high speed 1Mbps CAN Bus Expansion module range
- 44e Expansion Module
- Additional Expansion Modules in future.

PROGRAMMING ENGINE

- Utilizes the latest DDC Engine
- Programmable via desktop application
- High speed control logic
- No licensing required

NFC

Configure your device/s via NFC

- Configure Devices with no power
- Streamline your installation
- NFC lockout available after installation

OPEN PROTOCOL CONFIGURATION OPTIONS

- BACnet IP - Daisy Chain IP (10/100 Mbps)
- BACnet MS/TP
  (Baud: 9.6, 19.2, 38.4, 76.8, 115.2 kbps)
- Modbus RTU to TCP Gateway
- REST API (Auth, Config, BACnet Points)

KEY FEATURES

General

- Web enabled controller
- Web or NFC configuration
- REST API
- 2 port Ethernet failover bypass

Hardware

8 x universal inputs (16-bit resolution)

- Dry Contact or Raw Resistance
- Pulse Count (up to 100 Hz)
- 3K / 10K Type 2 thermistor
- 0-10VDC / 4-20mA

8 x universal outputs

- BO Mode - 24VDC 0.20A max
- AO Mode - 0-10VDC / 4-20mA

BACnet Functions

Internally hosted objects:

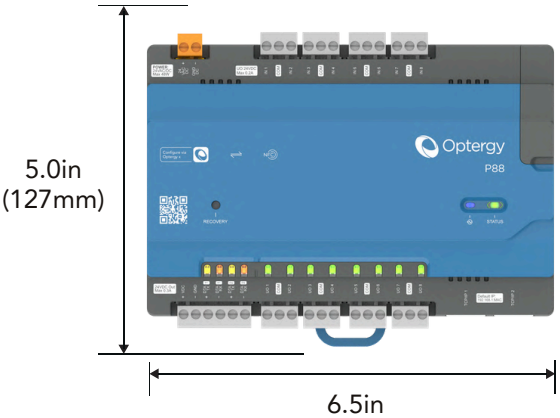
- 200 trendlogs
- 100 alarms
- 10 schedule
- 10 calendar
- 10 notification class
- 1024 BACnet software points

HARDWARE SPECIFICATIONS

Processor & Memory	Quad Core ARM Cortex A53 1.4GHz 512 MB DRAM with 8GB EMMC Flash Memory
Power	24 VAC, 12-24 VDC Class 2 (+/- 10%) Min load: < 5 VA with 24 VAC or 5 W with 12-24 VDC Max load: 48 VA with 24 VAC or 48 W with 12-24 VDC
Inputs	8 Universal Inputs with 16-bit resolution. Software selectable: • Dry Contact or Raw Resistance • Pulse Count (up to 100 Hz) • 3K / 10K Type 2 thermistor • 0-10VDC / 4-20mA • Pulse Count (support up to 100 Hz)
Outputs	8 Universal Outputs Software selectable: • Binary Output 24VDC 0.20A max • Analog Output 0-10VDC • Analog Output 4-20mA
24 VDC Output	Power for external devices • 24VDC 0.3A Max
Real Time Clock	Powered by on-board super capacitor with up to 5 days' life, real-time clock supports a time schedule, a calendar, alarms and trendlogs
Dimensions	6.5in (165mm) x 5.0in (127mm) x 1.8in (47mm)
Weight	12oz (340 grams)
Mounting	Both screw and DIN rail mountable
Terminals	Removable terminals
Environment	-4°F (-20°C) to +140°F (+60°C) 0 to 95% RH, non condensing
Communications	BACnet IP, BACnet MS/TP, Modbus RTU, REST API
Ratings	This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International. BTL is a registered trademark of BACnet International. Operating Control, Network Energy Management Controller **Purpose of Control:** Energy Management **Construction of control:** Independently Mounted Control for Surface Mount or DIN Rail **Impulse Voltage:** 330V **Pollution Degree:** 2 **SELV Levels:** 24V **Automatic action:** Type 1 Action
Model Number	P88-V1
Country of Origin	Malaysia

DIMENSIONS

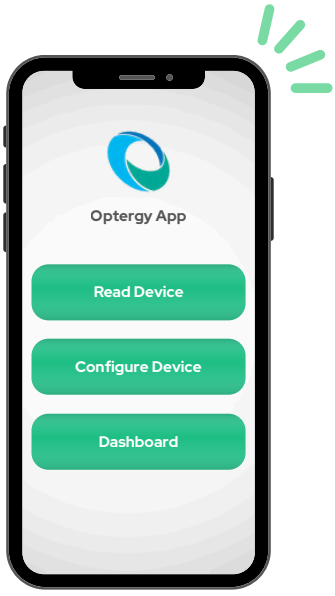
TOP



FRONT



New Optergy App



Download

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