Optergy Edge

Optergy 44e

The 44E expansion module extends the P88 with additional I/O over a high-speed CAN bus. Improved electrical protection and robust, modern hardware ensure reliable performance across the largest plant and AHU applications—the perfect companion to Optergy's most powerful programmable controller.

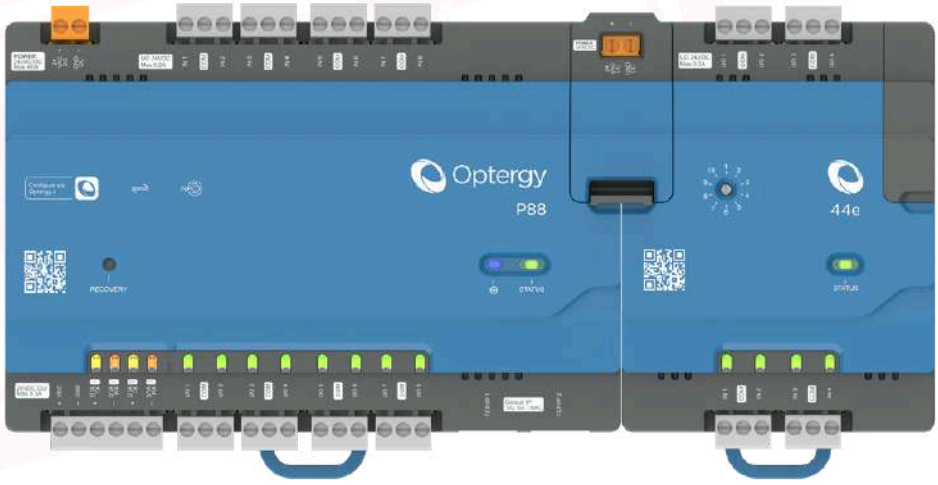


OVERVIEW

The Optergy 44E is an expansion module that provides the hardware inputs and outputs, controlled directly by the Optergy P88 controller.

The P88 hosts control logic, schedules, trends, and alarms, and can be expanded with 44E modules to support up to 88 hardware data points. In the event of a power interruption, the P88 retains all 44E data in memory, and normal operation resumes automatically once power is restored.

Expansion Clip



P88 Controller ***44e (Expansion IO Module)***

APPLICATIONS

Master Controller
Central Plants
Large built up AHU
Small Building Control

Unitary Controller
Air Handling Unit
Lighting Control
Energy Metering



Hardware

4 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

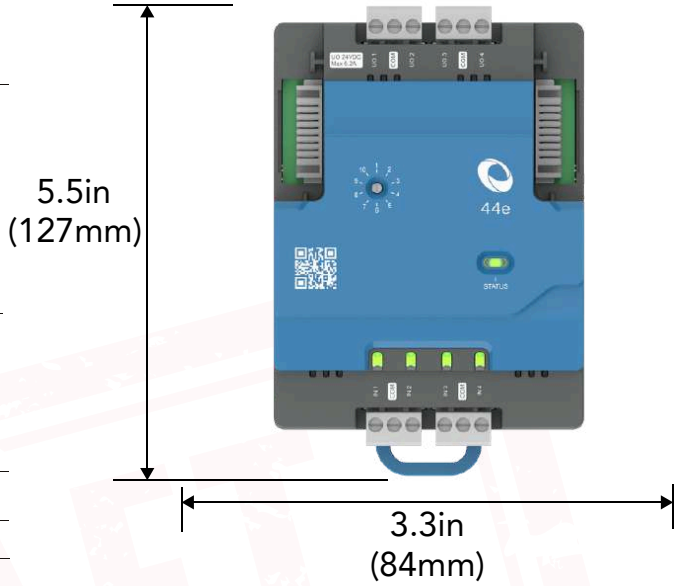
4 x universal outputs
- BO Mode - 24VDC 0.20A max
- AO Mode - 0-10VDC / 4-20mA

HARDWARE SPECIFICATIONS

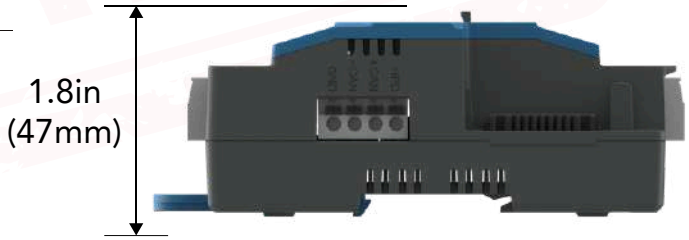
Processor & Memory	ARM Cortex M33 32-bit MCU 250MHz, 512KB Integrated Flash Memory
Power	24 VAC, 12-24 VDC Class 2 (+/- 10%) Min load: < 5 VA with 24 VAC or 5 W with 12-24 VDC Max load: 24 VA with 24 VAC or 24 W with 12-24 VDC
Inputs	4 Universal Inputs with 16-bit resolution. Software selectable: • Dry 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	4 Universal Outputs Software selectable: • Binary Output 24VDC 0.20A max • Analog Output 0-10VDC • Analog Output 4-20mA
Dimensions	5.0in (127mm) x 3.3in (84mm) x 1.8in (47mm)
Weight	6oz (170 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
Communicatios	CAN Bus (1Mbps)

DIMENSIONS

TOP



FRONT



Ratings	CE FC	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.
	c UL us LISTED E507611	**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	44E-V1	
Country of Origin	Maylasia	

CONFIGURATION OPTIONS

Master Controller with Expansion IO (up to 7)

BASE P88 **44E-1** **44E-2** **44E-3**



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