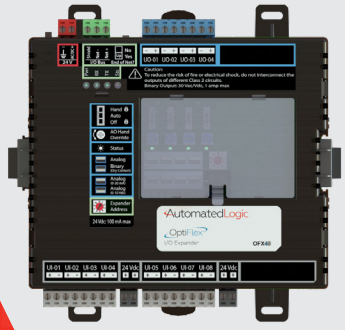
OPTIFLEX™ EQUIPMENT EXPANDER

FOR ADVANCED EQUIPMENT CONTROLLERS



EXPANDER FOR OPTIFLEX ADVANCED EQUIPMENT CONTROLLERS

The OptiFlex equipment expander (OFX48) can help you increase input and output capacity to the powerful OptiFlex advanced equipment controller, model OF683XT-E2. The OFX48 also provides additional I/O types such as universal inputs and outputs. The expander is designed for flexible panel or remote mounting configurations, and can be DIN rail or screw-tab mountable.

KEY FEATURES AND BENEFITS

Hardware Features

- Adds up to 4 outputs and 8 inputs (12 points total) to a OF683XT-E2 controller
- Removable screw terminals for I/O connections
- Hand-Auto-Off switches on all output channels
- Expanders can be mounted to the OF683XT-E2 in a compact configuration or remotely mounted up to 1,000 feet away
- Supports DIN rail or screw-tab mounting

System Benefits

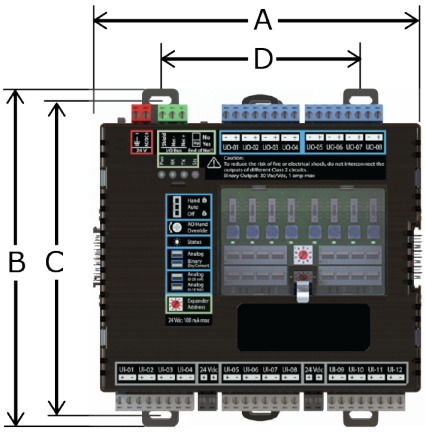
- Connects seamlessly to the WebCTRL building automation system
- Supports demand limiting and optimal start for maximum energy savings

The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that helps you reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.

SPECIFICATIONS

Part #	OFX48 OptiFlex Equipment Expanders
Power	24 Vac +/- 10%, 50 - 60 Hz, 50 VA or 26 Vdc +/- 10%, 12 W
Communication	
I/O Bus Port	Provides communication to the OF683XT-E2 host module
Inputs - (8) inputs configurable in the control program for 0-5 Vdc, 0-10 Vdc, 0-20 mA, RTD, thermistor, dry contact, or pulse counter	
Resolution	16-bit A/D
Pulse Frequency	40 pulses per second. Minimum pulse width (on or off time) required for each pulse is 12.5 msec.
Outputs	4 outputs can be set as analog or binary outputs. Analog outputs can be used for 0-10 Vdc or 0-20 mA devices. Binary outputs have a built-in relay and can be used to switch external devices or relays up to 1A, 30 Vac/Vdc
Resolution	12 bit D/A
Status Indicators	LED indicate status of communications, system state (running or errors), outputs, and power
Microprocessor	32-bit microprocessor with 256 kB Flash memory and 64 kB SRAM
Environmental Range	-40 to 158°F (-40 to 70°C), 10–95% relative humidity, non-condensing **NOTE:** Install in a UL listed enclosure only.
Protection	The OFX48 has two, fast-acting 5mm x 20mm glass fuses: A 2A fuse for the OFX48's power and a 4A fuse for the I/O bus edge connector.
Physical	Fire-retardant plastic ABS, UL94-5VA
Terminal Connectors	Screw-type terminal blocks. 0.2 in. (5.08 mm) pitch connectors
Compliance	**United States:** FCC compliant to Title CFR47, Part 15, Subpart B, Class A. UL Listed, File E143900; CCN PAZX, UL916, Energy Management Equipment; **AS/NZS:** RCM Mark, IEC 61000-6-3; **Canada:** UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant, ICES-003, Class A; CE Mark Compliant with 2014/30/EU, and RoHS Compliant: 2015/863/EU; **UKCA** Mark compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012, REACH compliant

Figure 1: Physical Dimensions



Overall

	in.	cm
Width (A):	6.9	17.53
Height (B):	6.95	17.65
Depth:	2.09	5.31
Weight:	1.1 lbs	0.49 kg

Screw Mounting

	in.	cm
(C):	6.45	16.38
(D):	4.1	10.4

Assembled in the United States

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