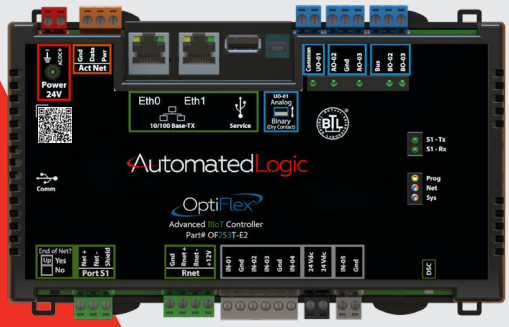
OPTIFLEX™ OF253T-E2

ADVANCED EQUIPMENT CONTROLLER



Automated Logic

CONTROLLER FOR THE WEBCTRL® BUILDING AUTOMATION SYSTEM

The OptiFlex Advanced Equipment Controller, model OF253T-E2, is ideal for small equipment control applications such as chilled beams, exhaust fans, unit vents, air curtains, and advanced zone control applications requiring direct connection or daisy chain topology over BACnet/IP and integration of devices such as VFDs, electric meters, lighting systems and Modbus occupancy sensors.

OptiFlex™

KEY FEATURES AND BENEFITS

Application Features

- Versatile controller suitable for a variety of applications, including chilled beams, exhaust fans, unit vents, air curtains, and advanced zone control
- Standard library of control programs available for most unitary equipment and zone applications
- Supports EIKON® graphical programming software, an object oriented tool that provides complete flexibility for any custom control sequence that you need
- Supports Automated Logic communicating ZS sensors, which are available in a variety of zone and equipment sensing combinations
- Supports OptiPoint™ touchscreen interfaces for managing and troubleshooting the connected equipment easily and for occupant engagement
- Supports OptiPoint smart valves and accessories
- Supports live, visual displays of control logic, helping operators troubleshoot and optimize system operation

Hardware Features

- Dual, Ethernet ports support daisy chain BACnet over IP; Spanning Tree Protocol (STP) enabled
- Supports 50 Modbus points for system integration
- Uses non-volatile memory to store control programs and historical data, eliminating the need for batteries
- Capacitor-backed real-time clock keeps time in the event of power failure for at least three days
- USB port for local device updates; hard-wired and wireless service connections
- Large termination strips for easy installation
- Firmware upgrades can be performed remotely
- DIN rail or screw mounting
- Can be installed in mechanical rooms, equipment boxes, or almost any other weather-tight location

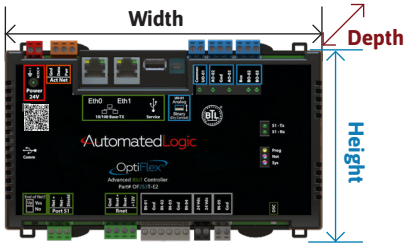
WebCTRL®

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 #	OF253T-E2 OptiFlex Advanced Equipment Controller
BACnet Conformance	BTL Tested and conforms to the BACnet Advanced Application Controller (B-AAC) and BACnet Broadcast Management Device (B-BBMD) standard device profiles, as defined in BACnet 135-2001 2012 Annex L, Protocol Revision 14
Power	24Vac +/- 15% , 50 - 60Hz, 55VA | 24Vdc +/- 10%, 20W. (80VA / 35W if additional Act Net devices are connected)
Communication	
BAS Primary Port	Dual, 10/100 Base T Ethernet ports supporting native BACnet over IP; daisy-chained Spanning Tree Protocol (STP) enabled
Serial Port 1	One EIA-485 port for communication with third party devices at 9,600 to 115,200 bps. Supports up to modbus 50 points.
Rnet Port	12VDC @ 260mA supporting: -Up to 5 ZS sensors - freely mix ZS zone, ZS duct, ZS immersion and ZS outdoor sensors -OptiPoint IAQ displays and OptiPoint equipment interfaces
Act Net Port	Supports Act Net communicating devices such as actuators and OptiPoint smart valves
USB Service Port	Supports OptiPoint IAQ Display and OptiPoint Equipment Interface support |configuration | wireless service access| firmware updates and controller recovery via USB drive
USB Comm Port	Supports communicating expansion modules
Inputs	
Universal	5 Universal Inputs electronically configurable to any of the following types: Dry | Pulse Counting | Thermistor | 0-10 Vdc
Auxiliary Power	24Vdc @ 100mA total current capacity
Outputs	
Universal Output	1 Output configurable to 0-10 Vdc | PWM 12Vdc @ 80 Hz | Normally Open Dry Contact rated 30Vac/Vdc @ 3.75A
Analog Output	2 Analog Outputs 10Vdc (D/A Resolution 12 bits)
Digital Output	2 Digital Outputs Normally Open Dry Contact rated 30Vac/Vdc @ 3.75 Amps, Max of 100VA / 4.2A per relay bank
Status Indicators	LED's indicate status of communications, running, errors, power, and outputs
Environmental Range	-40°F to 158°F (-40 to 70°C), 10–90% relative humidity, non-condensing
Memory	4 GBs eMMC Flash memory and 256 MB DDR3 DRAM. User data is archived to non-volatile flash memory when parameters are changed, every 90 seconds
Real Time Clock	Real-time clock keeps track of time in the event of a power failure for at least 3 days
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 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.
Plastic Rating	Fire-retardant plastic ABS, UL94-5VA

Figure 1: Physical Dimensions



	in.	mm
Width:	7.785	197.739
Height:	4.894	124.308
Depth:	2.006	50.952
Weight:	1.6 lbs	0.82 kg

1150 Roberts Boulevard, Kennesaw, Georgia 30144
770-429-3000 • Fax 770-429-3001 | automatedlogic.com | A Carrier Company