

SITEIO-E™ SSW-28IOE™

Product Specification/Installation Guide

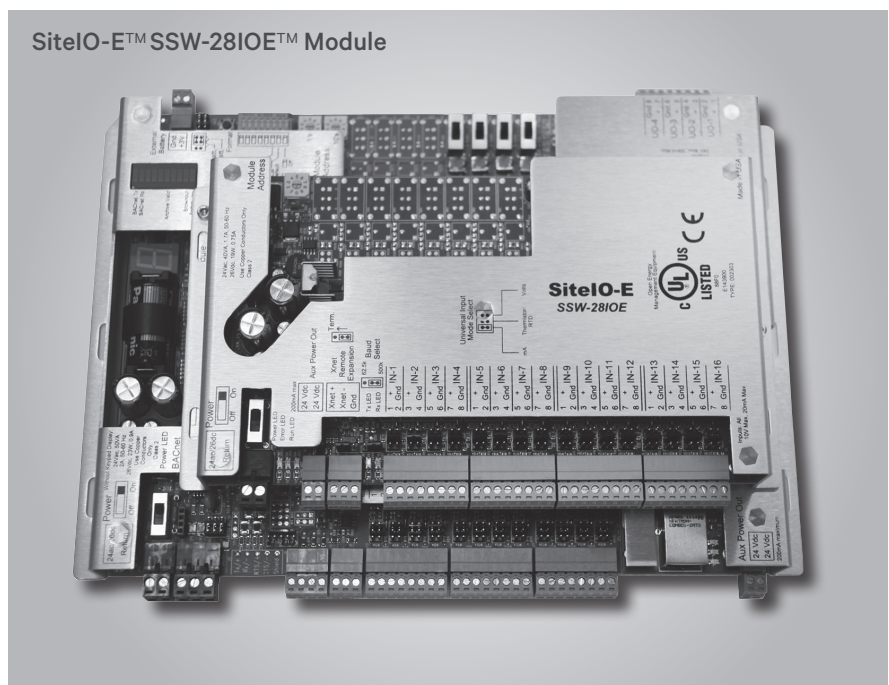


The Liebert SSW-28IOE is a general-purpose IO module that can be used to control multiple pieces of equipment simultaneously.

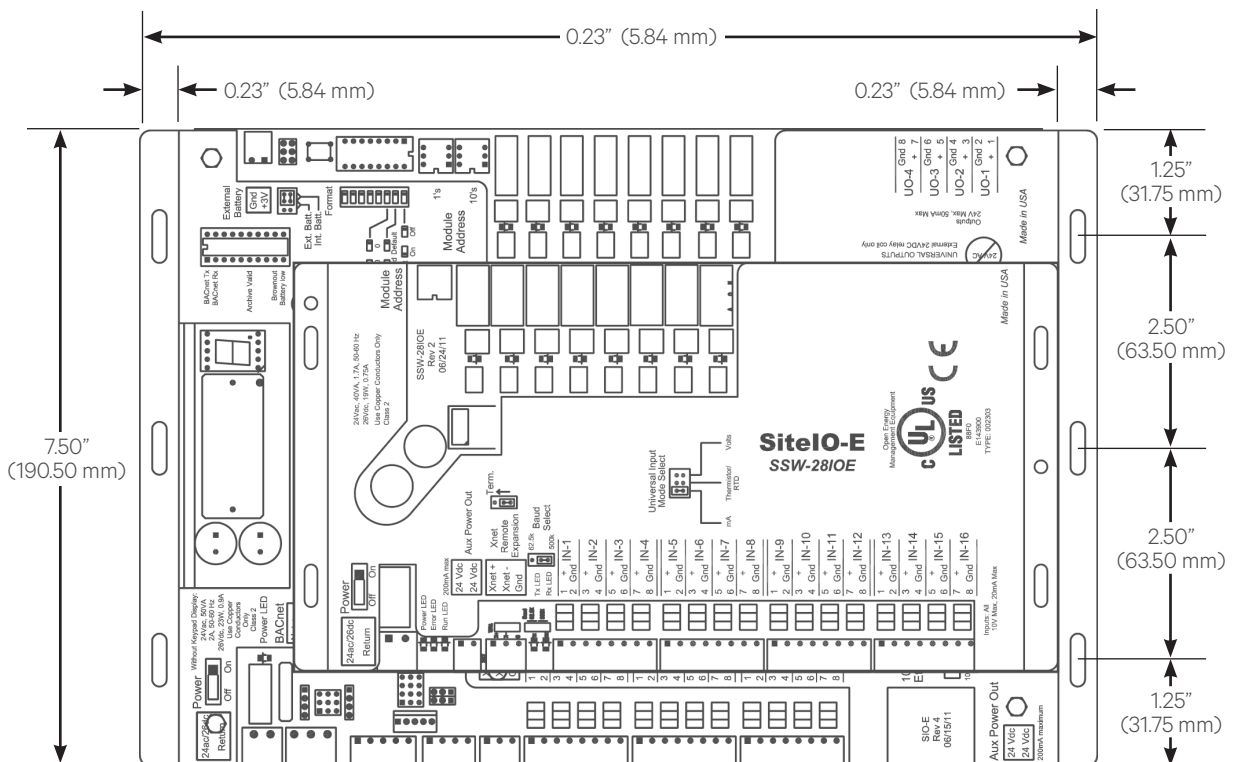
The unit comes assembled and installed in an enclosure.

The 32-bit microprocessor-based device is designed to monitor up to 28 analog, digital and/or dry contact signals and control up to four outputs. These outputs can be any combination of analog and digital.

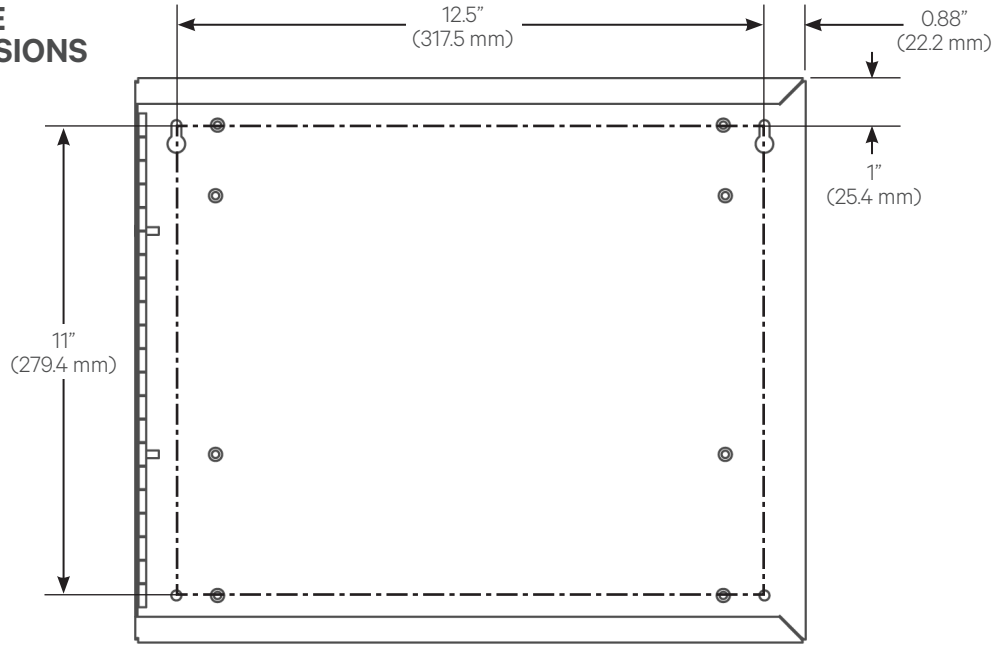
The outputs are controlled through custom programming defined by the user. These outputs support manual control override capabilities through switches on the module. Individual hardware jumpers set input signal-type selections. Screw terminal blocks are provided to terminate power, input and output signal wiring.



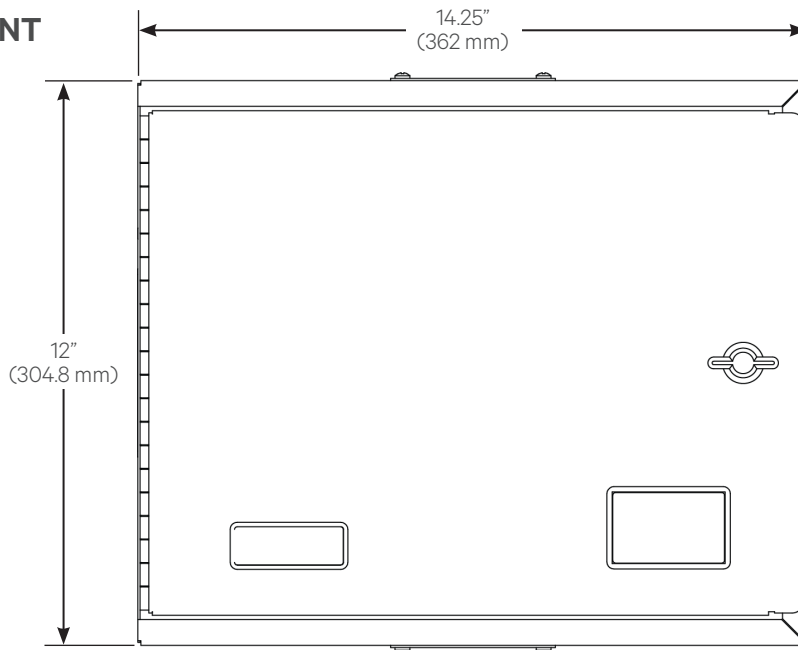
MODULE DIMENSIONS AND LAYOUT



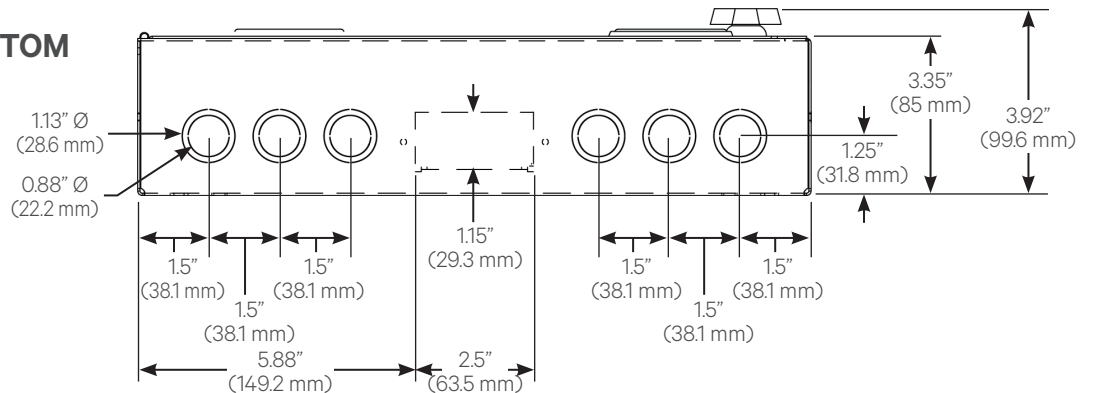
MOUNTING HOLE PATTERN DIMENSIONS



ENCLOSURE FRONT DIMENSIONS



ENCLOSURE BOTTOM DIMENSIONS



SPECIFICATIONS

MODEL NUMBER	PSP500MT3-230U	
Power	24VAC ±10%, 50-60Hz, 95VA; 26VDC ±10%, 44W	
Dimensions - W x D x H, in. (mm)	Overall: 7-1/2 x 2-3/4 x 11-5/16 (190.5 x 70 x 287)	Mounting: 5 x 2-3/4 x 10-13/16 (127 x 70 x 275)
Weight, lb. (kg)	12.2 (5.53)	
Communication	<ul style="list-style-type: none"> • One (1) Ethernet 10/100BaseT RJ-45 port for BACnet/IP communication, half duplex • BACnet Support: Conforms to the Advanced Application Controller (B-AAC) Standard Device Profile as defined in ANSI/ASHRAE Standard 135-2004 (BACnet) Annex L • Rnet: Local laptop and/or BACview access port. Conforms to the BACnet Advanced Application Controller (B-AAC) Standard Device as defined in BACnet 135-2001 Annex L. 	
Inputs	28 Inputs, configurable for 0-5VDC, 0-10VDC, 0-20mA, RTD, thermistor or dry contact	
Input Resolution	12 bit D/A	
Microprocessor	32-bit Motorola Power PC microprocessor with cache memory, Fast Ethernet controller, high-performance 32-bit communication co-processor and I/O expansion CAN co-processor	
Memory	16 MByte non-volatile battery-backed SDRAM (12 MBytes available for use) 8 MByte flash memory, 32-bit memory bus	
Real-Time Clock	Battery-backed real-time clock keeps track of time in event of power failure	
Environmental Operating Range	20°F to 140°F (-29°C to 60°C); 10 to 90% relative humidity, non-condensing. Note: Control modules should be installed within the building.	
Protection	Built-in surge and transient protection circuitry for power, network, input, and output connections; Incoming power is protected by a replaceable 3A fuse. Automatically resetting internal solid-state polyswitches protect network connections. The power, network, input and output connections are also protected against voltage transient and surge events.	
Battery	10-year Lithium CR123A battery provides a maximum of 720 hours data retention during power failures. To extend battery life, battery backup turns off after a number of days defined in the module driver.	
Agency Listings	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B Class A, CE EN50082-1997	

WIRING SPECIFICATIONS

CONNECTION	MAX. WIRE LENGTH, ft. (m)	GAUGE MINIMUM
Ethernet 10 BaseT	328 (100) (CAT5),	N/A
Thermistor Dry Contact	1000 (305)	22 AWG
0-5 VDC	1000 (305)	26 AWG
0-10 VDC	1000 (305)	26 AWG
0-20 mA	3000 (914)	26 AWG
RTD	100 (30)	22 AWG

SIGNAL TYPE

SIGNAL TYPE	DESCRIPTION
Thermistor ¹	Precon type 2 (10 kOhm at 77°F). Input voltages should be from 0.489 to 3.825VDC for thermistors.
Dry Contact	A 5VDC wetting voltage detects contact position, resulting in a 1 mA maximum sense current when the contacts are closed
0–5 VDC 0–10 VDC	Source Output Impedance: <200Ohms Input Impedance: 20kOhm
0–20 mA	Input resistance on the positive (+) terminal: 250 Ohms Aux Power Out terminal is capable of supplying 24VDC to multiple 4– 20 mA transducers; total current demanded must not exceed 200 mA Ext. power supply required if voltage measured from the Aux Power Out terminal to Gnd is less than 18VDC
RTD ¹	Platinum - 1 kOhm at 32°F (0°C) Nickel/Iron - 1 kOhm at 70°F (21°C) Balco TS8000 - 1 kOhm at 70°F (21°C) Input voltages should be from 0.6–1.2 V.
Pulse Counter ²	Pulse counting up to 40 pulses per second. Minimum pulse width (on or off time) required for each pulse is 25 msec

1. To use a thermistor or RTD not listed above, a custom translation table for the sensor must be set up.
2. Liebert Site IO-E can perform pulse counting for dry contact or voltage inputs if input is assigned to a Pulse to Analog Input microblock.

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