



WALKER SYSTEMS

building intelligence



DESCRIPTION

IOB-Thermostat is an I/O Bus room sensor that combines a high accuracy temperature sensor with Unitary control algorithms. I/O Bus capabilities allow you to network multiple Roomstats on one I/O Bus.

APPLICATIONS

- Room temperature sensing
- setpoint adjust
- LED override indication
- connect to any SAC over I/O Bus
- Up to 2 stage heat and/or 2 stage cool
- Auto or continuous fan operation

DESIGNED & MANUFACTURED IN CANADA BY **WALKER SYSTEMS CORPORATION**
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IOB-Thermostat (I/O BUS ROOM SENSOR) PRELIMINARY

FEATURES

- I/O Bus allows multiple Roomstats to be connected to any single SAC
- One, two or three button modules with or without setpoint dial
- Default settings and changes stored in memory (no batteries)
- 10 bit A/D

OPTIONS

- Modules are configurable for setpoint, deadbands, heat/cooling
- Setpoints are configurable and protected (occupied/unoccupied modes, night setback)
- Commons (grounds) are configurable

SENSOR

- 3K thermistor
- $\pm 0.2^{\circ}\text{C}$ accuracy ($\pm 0.36^{\circ}\text{F}$ accuracy)

COMMUNICATION PROTOCOL

- Walker ASCII Protocol

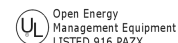
CABLE

- 18 AWG twisted shielded pair
- I/O Bus
- Maximum length 1000 feet

CONNECTIVITY

- 2 wire terminal for I/O Bus

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FORM # WSC99-091

IOB-Thermostat

TECHNICAL SPECIFICATIONS

COMMUNICATION PORTS

TYPE	QTY	USAGE	CONNECTORS
I/O Bus	1	Walker ASCII Protocol I/O Bus	2 pin WECO

ELECTRICAL / MECHANICAL

MODULE	CASE SIZE	I/O BUS LOADING
IOB-Thermostat	72 x 115 x 24 mm	1 unit of load

INPUTS

TYPE	USAGE	RANGES	DEVICES	DISPLAY
IOB-Thermostat	temperature	-10°C to 140°C (14°F to 284°F)	3k thermistor	temperature
	temperature	-40°C to 40°C (-40°F to 104°F)	1k thermistor	temperature

OUTPUTS

TYPE	USAGE	RANGES	CAPACITY	DISPLAY
mechanical relay	contact closure	mechanical contact closure	2 A @ 30 VDC 500, 000 ops	user defined

CABLE

TYPE	CONDUCTOR	MAXIMUM LENGTH
I/O Bus	18 AWG shielded twisted pair	1000 feet

ENVIRONMENTAL

OPERATING TEMPERATURE	STORAGE TEMPERATURE	RELATIVE HUMIDITY
0°C to 50°C (32°F to 122°F)	-35°C to 66°C (-31°F to 151°F)	0 to 95% RH, non-condensing

25.4mm = 1.0 inches