



## DESCRIPTION

A highly stable, multiple loop unitary controller which operates stand alone or as a fully functional component of a distributed control system.

This product is designed to give the lowest cost solution. The Easy-STAT 13 comes with full program configuration and tuning via the RS232 dumb terminal interface. It allows download of all new Easy-STAT algorithms.

## APPLICATIONS

- Unit Heater
- Two or Four Pipe Fan Coil Units
- Terminal Reheat Units
- Radiation Heating Units
- Exhaust Fan Control

## FEATURES

### Hardware:

- "Industrial grade" controllers.
- Internal sensor.
- Walker I/O Bus.
- On-board Terminal strip connections.
- 3pin RS232 terminal (or PDA) access to all functionality.
- Thumbwheel setpoint knob in degree Celsius
- Optional Warmer/Cooler label for setpoint knob.
- Keypad override button.
- Real time displays (columnar graphics) for setup.
- Switching power supply for high noise immunity.
- Plug and Play when tied to Walker I/O Bus products.
- Ability for complete control and monitoring by a supervising SAC over an I/O Bus network.

### Software:

- Up to 3 separate PI controllers in each Easy-STAT 13.
- Adjustable minimum and maximum values for all points.
- Adjustable deadbands and predictive responses.
- Configurable password protected access to all tuning parameters via serial port.
- Setup of default parameters via serial port.
- Several strategy options for each application.

## TECHNICAL SPECIFICATIONS

### I/O POINT QUANTITIES

EASY-STAT1X	
Inputs	base Easy-STAT 1x has 0, selecting the _I option provides 3 inputs
Outputs	base Easy-STAT 1x has 0, selecting the _O option provides 3 outputs: 1 digital relay output, 2 jumper selected analog or digital outputs.

### INPUTS

TYPE	USAGE	DEVICES
0-5Vdc with 3k 1% pull-up	Voltage (0-5Vdc)	Standard 0-5Vdc Devices
	Digital	Contact Closure
	Temperature	3k NTC Thermistor
Internal Sensor	Room Temp	3k NTC Thermistor ( $\pm 0.2^{\circ}\text{C}$ , $\pm 0.36^{\circ}\text{F}$ )

### OUTPUTS

TYPE	USAGE	RANGES	CAPACITY
Analog	Voltage	0-10Vdc	20mA
		2-10Vdc	20mA
Digital ( 20mA contact closure to ground )	On-board Relay* Contact Closure	AC Switching	1A at 30Vac
		DC Switching	1A at 24Vac

\* Relay is OMRON G5V-1 12VDC

### COMMUNICATION PORTS

TYPE	QUANTITY	USAGE	BAUD RATE
I/O Bus	1	Walker I/O Bus Protocol	9.6kbps
Atmel RS232	1	3pin Access of Real Time Displays for Setup	9.6kbps

### ELECTRICAL

TRANSFORMER	LOADED VA RATING
24Vac	2 VA

### CPU & MEMORY

CPU	MHz	BITS
Atmel Mega8	16	8

### MECHANICAL

CASE DIMENSIONS in mm (inches)
See image

