



## FEATURES

### Hardware:

- “Industrial grade” controllers.
- Optional big, easy-to-read 4 digit LCD with thumbwheel knob for quick changes to all control parameters.
- Optional I/O.
- Separate relay board providing terminal connections and 6 relays.
- Keypad and RS232 terminal (or PDA) access to all functionality.
- BACnet MSTP.
- Walker I/O Bus.
- 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.
- Internal time schedules with 48 hour clock backup on power failure.
- Ability for complete control and monitoring by a supervising SAC over an I/O Bus network.
- Internal sensor.

### Software:

- Complex control strategies with two or three separate PI controllers in each Easy-STAT.
- Celsius or Fahrenheit operation.
- Password protected access to all tuning parameters via keypad, knob and display, or serial port.
- Any application can be downloaded to a single hardware device.
- 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.

## DESCRIPTION

A highly stable, multiple loop unitary controller which operates stand alone or as a fully functional component of a distributed control system. All models allow download of new Easy-STAT algorithms.

## APPLICATIONS

- Multiple Zone Heating/Cooling
- Fan Coil Controller
- Humidification Control
- Heat Pump
- Rooftop
- AHU and economizer
- VAV Control

### EASY-STAT 25

This product is designed to provide variable solutions for more sophisticated applications.

#### Communications:

The Easy-STAT25 has a RS232 communication port. It also communicates concurrently as master and slave via Walker's IOB Protocol. It has a RS485 protocol interface that can be optionally used instead of IOB connections. Communicates with Gruner motor. Can be used to control a VAV zone or as a simple terminal interface for a SAC panel.

#### Connections:

Connections are provided on an external Terminal/Relay board for box mounting (TB25R).

The terminal board is attached to Easy-STAT 25 via dual RJ45 connectors (CAT5 interconnect cables not provided). It also includes 20pin terminal strip connections for use with full option Easy-STAT 25, and 6 relays driven by the digital outputs.

### EASY-STAT 2X OPTIONS

The Easy-STAT 25 is available with the following options:

Blank;

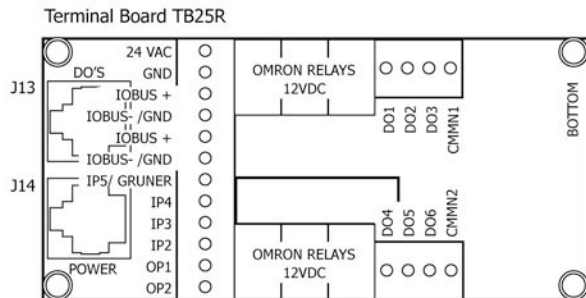
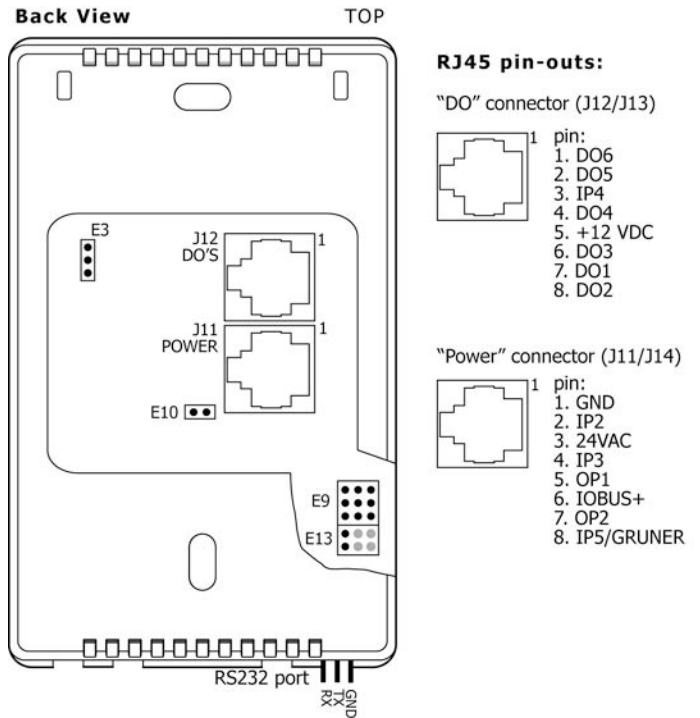
This option has no display; no setpoint knob; and no keypad.

Setpoint;









This option has no display; it has a setpoint knob in degrees Celsius and a push button with LED override indication.

Display;

This option has a big, easy-to-read 4 digit display; a 3 button keypad; and a setpoint knob.



#### Jumper settings on the Easy-STAT25, selecting:

- E3 - IP5 or GRUNER motor:  IP5  GRUNER (if installed)
- E9 - IOBUS or RS485 communication:  IOBUS  RS485 (if installed)
- E10 - Capacitor memory backup:  enabled  disabled
- E13 - RS485 120 Ohm termination:  terminated  un-terminated

## TECHNICAL SPECIFICATIONS

### I/O POINT QUANTITIES

EASY-STAT 2X	
Inputs	base Easy-STAT 2x has 0, selecting the _I option provides 4 inputs
Outputs	base Easy-STAT 2x has 0, selecting the _O option provides 8 outputs: 6 digital relay drive outputs, 2 analog 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 24Vdc

\*Relay is OMRON G5V-1 12VDC

### COMMUNICATION PORTS

TYPE	QUANTITY	USAGE	BAUD RATE
I/O-Bus	Jumper Selectable *	Walker I/O-Bus Protocol	9.6kbps
RS485	Jumper Selectable *	RS485 Protocol	
RS232	1	3pin Access of Real Time Displays for Setup	9.6kbps

\* Jumper selectable for either Walker I/O-Bus or RS485

### ELECTRICAL

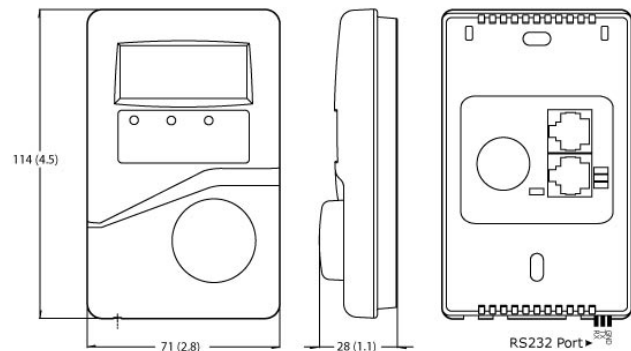
TRANSFORMER	LOADED VA RATING	LOADED VA WITH GRUNER MOTOR (sharing transformer)
24Vac	5 VA	10VA

### CPU & MEMORY

CPU	MHz	BITS
Atmel Mega16	16	8

### MECHANICAL

CASE DIMENSIONS in mm (inches)
See image





# Easy-STAT 25

Stand Alone or Communicating Controllers

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