



Easy-STAT 1x

Stand Alone or Communicating Controllers



DESCRIPTION

Easy-STAT1x is a highly stable, multi-loop unitary controller with a strong background. Twenty years of control systems technology in large applications are compressed into this small powerful controller using state of the art control strategies.

Easy-STAT1x can operate stand-alone or as a fully functional component of a distributed control system.

This Easy-STAT1x is designed to give the lowest cost solution. It comes with an RS232 port and optional inputs and outputs. All models can be programmed, configured and tuned via the RS232 interface. Adjustments to the temperature settings can be made with the setpoint knob and optional override button with LED indication.

POWERFUL FEATURES

- DegC or DegF operation.
- Switching power supply for high noise immunity.
- "Industrial grade" controllers.
- Up to 3 separate PI controllers in each Easy-STAT.
- Several strategy options for each application.
- 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.
- Terminal (or PDA) access to all functionality.
- Real time displays (columnar graphics) for setup.
- 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.
- Configuration and modification via Hyperterminal or EasySTAT software tool

COMMUNICATIONS PROTOCOLS

All points supervisable via:

- Walker I/O BUS - plug and play
- RS232
- RS485
- custom third party protocols

APPLICATIONS

- Unit Heater
 - Two or Four pipe Fan Coil units
 - Terminal Reheat units
 - Radiation Heating units
 - Exhaust Fan control
-

CONTROL PROGRAMS

- **Two Pipe Fan Coil**

Enables switching between summer and winter mode, controlling a heater, cooler and a fan.

- **Four Pipe Fan Coil**

Modulates four pipe fan coil heating and cooling valves as required to maintain space temperature at setpoint.

- **Radiation with Exhaust Fan**

Suitable for control of hydronic radiant ceiling panels, wall fin radiation or convectors.

- **Radiation with Exhaust Fan and Schedule Output**

Enables control of the fan on a time of day basis by a supervising SAC.

- **RadVaV**

Control of a pressure dependant box for VAV heating or cooling.

- **Radiation Three Zones**

Control of three independent zones of heating, with full PI control for each zone.

SPECIFICATIONS

Interface

- Setpoint knob graduating in °C or °F
- Override option with LED indication

Temperature Sensor (internal or external)

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

Connectors

RS232, terminal strip, ribbon cable or RJ45

Switching Power Supply

24VAC (18Vac to 30 VAC) or 9 to 12 VDC

Inputs/ Outputs

- 3 universal Inputs for thermistor or voltage Input
- 3 jumper selectable Output configurations;
 - 0 OP + 3 relays
 - 1 OP + 2 relays
 - 2 OP + 1 relay

Dimensions in mm (inches)

