



# Easy-STAT 2x

Stand Alone or Communicating Controllers

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## DESCRIPTION

Easy-STAT2x 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-STAT2x can operate stand-alone or as a fully functional component of a distributed control system. It can be self-networked to share global information.

Downloadable programs for control strategies can be adjusted with knob and keypad, dumb terminal, or via networked commands.

## POWERFUL FEATURES

- High accuracy "industrial grade" controller
- Big easy-to-read 4 digit LCD
- Temperature, setpoint, plus 2 external Inputs, 6 Digital and 2 Analog Outputs
- Simple operation
- Keypad and terminal (or PDA) access to all functionality
- Real time display
- EPROM setup via serial port
- Dual time schedules with 2 intervals per day
- 8 hour clock backup on power fail (some models)
- Configurable number of heat/cool stages
- Analog outputs configurable for cooling (0 to 10Vdc) or Heating Triac's (0 to 10 seconds)
- Supervisory mode or local access to all internal variables
- Direct manual control of outputs
- Several algorithms and options in each controller
- Plug and play when tied to Walker SAC controllers
- Accessable via Internet or Intranet using additional Walker products
- Custom applications available on request

## COMMUNICATIONS PROTOCOLS

All points supervisable via:

- Walker I/O BUS
- BACnet MS/TP
- Johnson-N2
- custom third party protocols

## APPLICATIONS

- Multiple zone heating and cooling
  - Humidification
  - VAV control
  - Rooftop units
  - Fan coil units
  - Heat-pumps
  - AHU and economizer
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## CONTROL ALGORITHMS

- Standard Proportional

One controller to control up to three stages of heating and three stages of cooling. Options include fan status feedback, stage swap enable for heating, reversing valve output, 2 to 10V output, schedule output, fan continuous and PWM outputs. All variables are adjustable. Algorithm is available with either scheduling or I/O Bus functionality.

Other versions based on the proportional algorithm include:

- with 100% Fresh Air  
Control two stages of heating and two stages of cooling with different strategies for day and night modes.
- with Pressure Control  
Including a third static pressure control loop
- with Gruner motor control  
Setup and control of a Gruner damper motor/ flow controller for VAV.
- Cooling offset  
Cooling based offsets for heating and night setpoints for use in the Middle East.
- with Modulating control  
Modulating outputs for floating control of damper motors.
- with Duty cycling control  
Adjustable sequencing on the outputs for duty cycling of loads.
- with Humidity control  
Including a third humidity control loop.
- Economizer control  
Including a third PI economizer controller to control free air cooling under certain limits.
- VAV – SH6 (Beta) I/O Bus  
Under development.

## SPECIFICATIONS

### Interface

- Thumbwheel knob (access to setpoints) in °C or °F or Warmer/Cooler
- LCD (Optional): 4 7-segment digits
- 1 or 3 button keypad option with LED override indication

### Temperature Sensor

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

### Communications Protocols

Walker I/O Bus, RS232, RS485, Smartlan, Modbus

### Connectors

RS232 with terminal strip, ribbon cable or RJ45

### Power

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

### Clock (optional)

Real time clock with capacitor back up

### Inputs/ Outputs (optional)

Using terminal or relay board

- 4 universal Inputs
- 3 universal Inputs with Gruner interface
- 2 analog outputs (0-10V)
- 6 digital outputs for relay drive

### Dimensions in mm (inches)

