



ST-35ER-F

SMART STAT™

DESCRIPTION

The ST-35ER sets a new precedent in the LON industry with the first wall mount fully programmable controller with integral 2-digit display. The functionality of the ST-35ER is virtually limitless with its flexible I/O configuration. Typical applications for the ST-35ER include control of: AHU's, Package Units, Heat Pumps, Fan Coil Units, Terminal Units, Unit Ventilators, VAV, etc.

The ST-35ER is fully programmable via VisualControl Graphical Programming. Standard and custom applications can be easily modified and/or created graphically, without the necessity of learning Neuron C or line code programming with unique syntax. The flexible I/O configuration of the ST-35ER consists of the following:

The ST-35ER incorporates a fully programmable end user interface which consists of the following: Backlit 2-digit LCD display and four pushbuttons. The functionality of the pushbuttons is completely flexible with the only limitations being the engraved labeling on the 4-buttons: up arrow, down arrow, mode, and fan. When the 4-pushbuttons are programmed to accommodate set point, override or fan control strategies, tremendous savings can be experienced as these are all software functions and do not require any additional devices to be purchased, installed and/or wired in the field.

Network connectivity is made easy with a discretely placed service pin pushbutton and service pin LED accessible at the top of the ST-35ER enclosure. The unit does not need to be removed from its base or wall, if wired, to establish a network connection.

APPLICATIONS

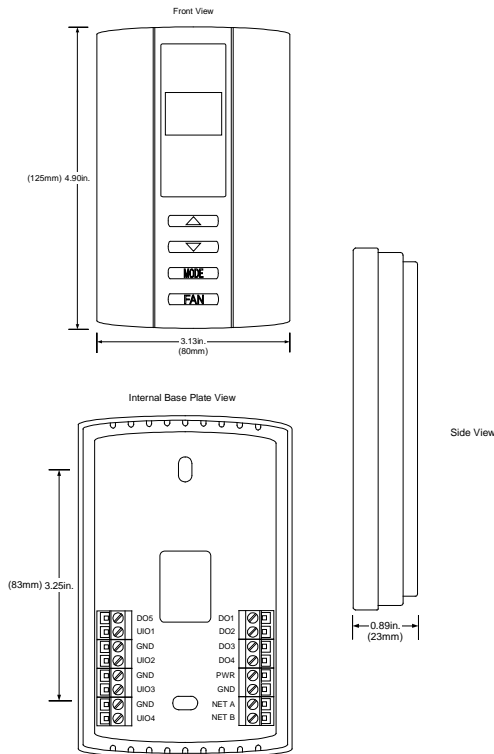
- Air Handling Units
- Fan Coil Units
- Roof Top Units
- Heat Pumps
- Chillers
- Boilers
- Lighting
- Energy Management
- Refrigeration
- Custom Applications

FEATURES

- Free Topology LONWORKS™ Communication
- FTT-10A (78KB)
- Neuron® 3150® processor
- Attractive architectural grade packaging
- User Interface:
 - Backlit 2-digit LCD
 - and 4-pushbuttons
- Fully programmable through graphical based VisualControl™
- Easily accommodates standard and custom control strategies
 - 5 Digital Relay Outputs
 - 1 On-Board Thermistor
 - 4 Jumper Selectable Universal Inputs or
- 0-10VDC Output
- Engineered for substantial job cost savings
- 2 Year Limited Warranty

SELECTION GUIDE

DIMENSIONS



CONTACT



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AGENCY



SPECIFICATIONS

General

Communication: LONTALK™ Protocol
 Transceiver: FTT, Free Topology
 Processor: Neuron 3150 @ 10 MHz
 Memory: 64K bytes FLASH
 2K bytes SRAM (Neuron)
 0.5K bytes EEPROM

(Neuron)

Power

Nominal Input Voltage: 24 VAC
 Input Voltage Range: 21-28 VAC
 Maximum Consumption: 8 VA, does not include Relay loading

Environmental

Operating Temperature: 0 °C to +50 °C,
 32°F to 122 °F
 Storage Temperature: -20 °C to +70 °C,
 -4 °F to 158 °F
 Relative Humidity: 5% to 95% (non-condensing)

Warranty

Period: 2 Years (Limited)

Inputs (Internal)

Number: 1
 Temperature Sensor: Onboard Thermistor
 Accuracy: ±0.5 °C, ±1.0F (0 to 50 °C)

Jumper Selectable Inputs/Outputs

Total Number: 4
 Input Options: Digital – Dry Contact
 Voltage – 0-5 Volts
 Thermistor – Type 2, 3:
 10Kohms

Output Options: Voltage – 0-10 Volts
 Analog Resolution: Input 12 bits, Output 10 bits
 Accuracy: ±1% FS (25°C, 77°F)
 Protection Circuitry: Transient Over voltage, ESD

Dedicated Outputs

Number: 5
 Digital: Relay 1.0 A @ 24 VAC, Voltage Sourcing
 Protection Circuitry: Transient Over voltage, ESD

Enclosure

Display: 2 Digit Backlit LCD Display
 Dimensions: L 4.90" x W 3.13" x H 0.89"
 (125 x 80 x 23 mm)

OPTION JUMPER SELCETIONS