75F® MyStat

A smarter, simpler BMS thermostat

– Occupancy, temperature, humidity and optional CO_2 in an intuitive, cost-competitive design

– TFT LCD display with illuminating user buttons

– (3) Relays

– (2) Universal outputs

– (1) Universal input

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The 75F MyStat is comfort made simple. This compact, versatile thermostat is designed to bring affordable and efficient HVAC control to a wide range of spaces. With advanced temperature, humidity, occupancy, and CO_2 sensing, MyStat optimizes energy use in offices, hotels, dorms, and other guest-facing settings.

MyStat integrates seamlessly into the 75F ecosystem, providing reliable control for up to two stages of heating/cooling/fan, as well as single-modulating output. Its approachable design, energy-saving features, demand response capability, and advanced connectivity all ensure maximum adaptability and a cost-competitive zone interface.

OVERVIEW

Functional, efficient, and affordable, the MyStat is designed for multi-unit applications where optimizing comfort, performance, and cost is required. Key features include 3 relays, 1 universal input, and 2 universal outputs, with built-in temperature, humidity, occupancy, and CO_2 sensing. Perfect for small RTUs, heat pumps, PTACs, and fan coil units.

KEY FEATURES

• Energy Efficiency Through Automation: Advanced occupancy sensing ensures optimal comfort when spaces are in use and reduces energy waste when unoccupied.

• Compact and Adaptable Design: MyStat is tailored for versatile HVAC setups, providing reliable control without intrusive equipment.

• Enhanced Connectivity:
    • Features wired RS485 communication as an option to wireless mesh as needed and for integration to other systems via Modbus and BACnet
    • Bluetooth LE for connecting to other BLE sensors like Wireless Door/Window Sensor or the Wireless Multi Sensor

• Standalone Option: Includes a real-time clock for standalone operation and 7-day programming.

ADDITIONAL FEATURES

• Seamlessly integrates into the 75F ecosystem via a robust wireless mesh network.
• Commissions and communicates with the CCU in just minutes with Bluetooth pairing
• Over-the-air firmware updates through the 75F Central Control Unit (CCU)

COMPATIBLE APPLICATIONS

Supports staging of up to two stages of cooling or heating. Up to two stages of fan or fully modulating:

• 2 Pipe Fan Coil Unit
• 4 Pipe Fan Coil Unit
• Rooftop Package Unit
• PTAC Units
• Heat Pump Unit

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MECHANICAL

Dimensions	3-3/8" (86mm) diameter x 1-1/4" (32mm) depth
Mounting	Wall mount
Screen	LCD, 1.8"

SENSORS

Temperature	Operating range between 32°F – 122°F (0 – 50°C); typical accuracy of +/- 1 °F or 0.5°C
Humidity	Sensing range between 0 to 100%RH; Typical accuracy of +/- 2% RH
Occupancy	Passive Infra Red (PIR) with detection range of 4m with 110 -degree angle
CO2* (Different part number)	400 - 5000ppm ± 50ppm accuracy± 2.5% measured value up to 400 - 1000ppm ± 50ppm accuracy ± 3% measured value up to 1001 - 2000 ppm

86mm

32mm

ELECTRICAL

Power	24V AC/DC (+/-15%) with nominal power consumption of less than 0.3W

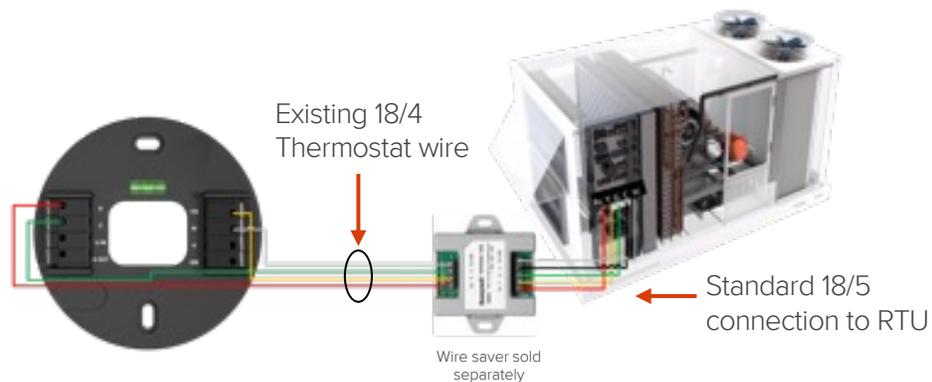## COMMUNICATIONS

Bluetooth	Bluetooth (BLE 5.4) for commissioning, location analysis or communication to wireless sensors*
Wireless Mesh	906-924 MHz IEEE 802.15.4-compliant for communication to CCU 868.3MHz IEEE 802.15.4-compliant for EU region
Wired	Industry standard RS485 for Modbus or BACnet. Mode – Server/Slave

WIRE SAVER

- Wire savers eliminate the need for new wiring (like C-wire) when upgrading to smart thermostats
- Useful for retrofitting older HVAC systems.
- Reduce installation effort and cost
- MyStat has built-in support for wire savers, controlled via short links
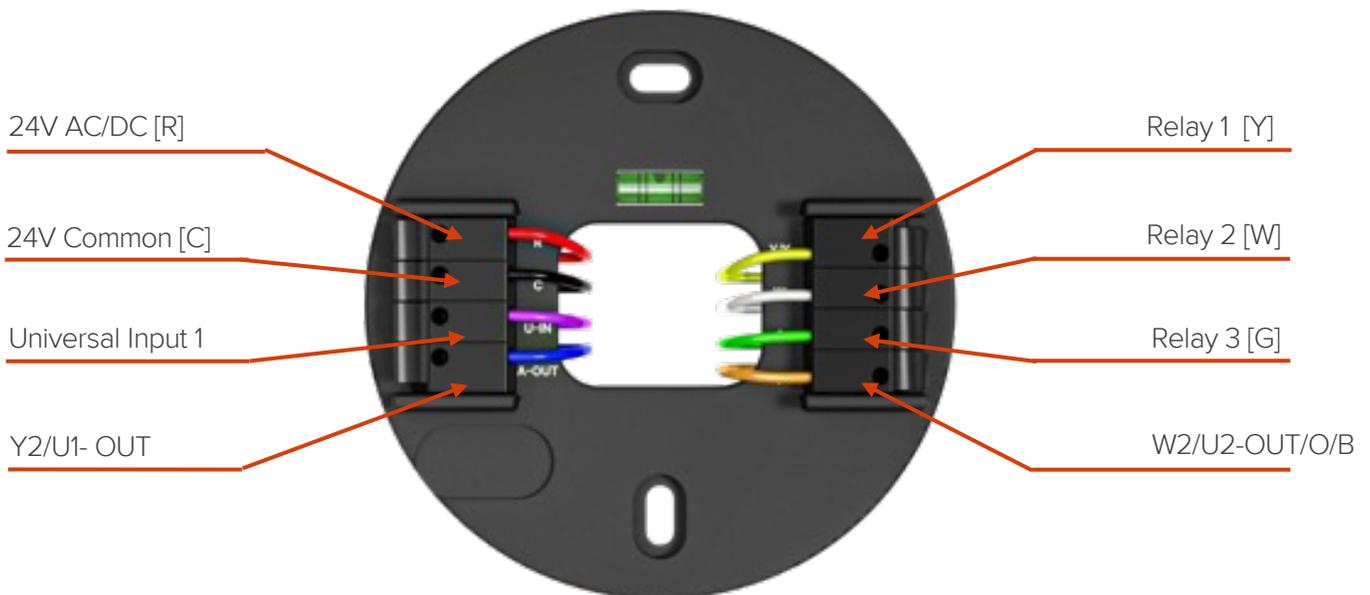

Existing 18/4 Thermostat wire

Standard 18/5 connection to RTU

Wire saver sold separately

75F® MyStat

I/O

Inputs	(1) Universal input which can accept Thermistor (NTC 10K Type 2), 0-10VDC, or Dry Contact. Can be configured as: Supply Air Temp, Generic Alarm NO or NC, Key Card Sensor, or Door/Window Sensor.
Outputs	A. (1) 0-10V DC B. (3+2*) relays rated at 0.3A, 120V ac or 1.0A, 24 V ac/dc resistive load * Part of Universal outputs

24V AC/DC [R]

24V Common [C]

Universal Input 1

Y2/U1- OUT

Relay 1 [Y]

Relay 2 [W]

Relay 3 [G]

W2/U2-OUT/O/B

WALL PLATE

Dimensions   123mm x 123mm

123

123

ORDERING INFORMATION

MyStat with CO2	7X-TS-C4K-C2
MyStat without CO2	7X-TS-C4K-X