75F® Connect Module™

Smart unit controller and I/O module with low-code driven customizations and profile sequences

- (8) universal Inputs, (4) analog outputs, and (8) relays
- Features (1) 75F sensor and (1) power over RS485 port
- Magnetic, easy-access cover and color-coded lever connectors
- Backlit LCD display with inputs/outputs
- Metal backing and DIN rail mounting
- Industry-standard Modbus and BACnet communication

75F® Connect Module

The Connect Module is a highly versatile and adaptable input/output module with Modbus and BACnet capability. It is designed to seamlessly integrate equipment and sensor data into the 75F system or third-party building automation systems. With one device and three primary applications, building control is simpler than ever.

OVERVIEW

The Connect Module is a smart unit controller and I/O module for multiple applications. This device is flexible enough to be applied in three different control strategies — integrated into the 75F HyperStat Split system to control simple RTUs or AHUs; used alongside the 75F Central Control Unit to monitor parameters and influence equipment control in advanced AHUs; or as an independent controller for equipment that interfaces with 75F or third-party supervisory controllers.

As a low-code controller, the Connect Module offers robust functionality, capable of monitoring inputs, executing condition-based logic, performing PI control, and receiving inputs from a BMS via Modbus and BACnet.

KEY FEATURES

- 1.8" TFT LCD backlit display for use in unlighted or dimly lit areas and 4 intuitive navigation buttons
- 8 universal inputs plus the innovative power over RS485 sensor bus to any compatible 75F sensor
- Additional 75F OWI sensor bus
- 4 analog outputs and 8 relays
- Bluetooth for connecting to wireless sensors
- BACnet and Modbus over RS485 for integration to third-party BMS
- Color-coded lever connectors for cable termination
- Magnetic, easy-access cover and DIN rail mounting

COMPATIBLE APPLICATIONS

- 75F® Advanced AHU
- 75F® HyperStat Split
- Standalone Connect Module

HyperStat Split
Configuration

Advanced AHU
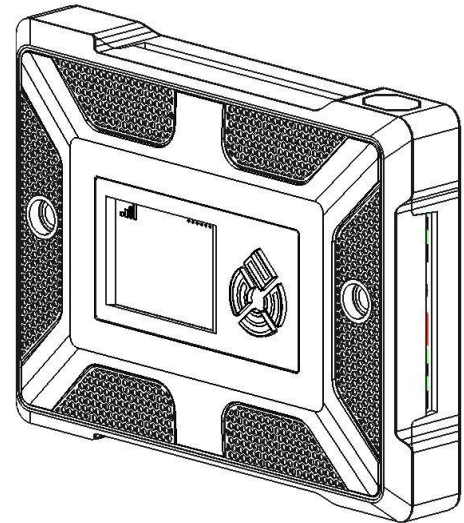Configuration
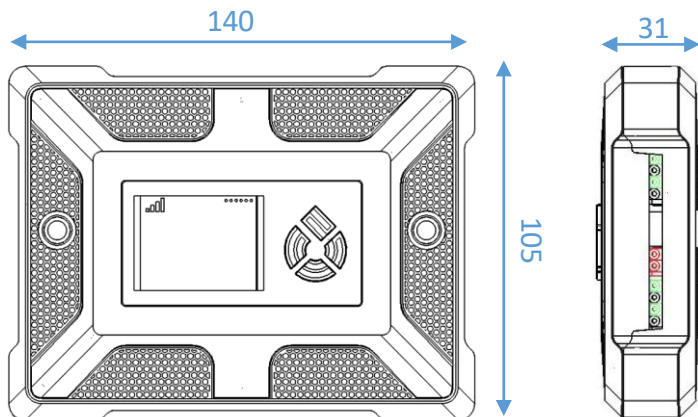
Independent Controller
Configuration

75F® Connect Module

MECHANICAL

Dimensions	5.5" x 4.13" x 1.22" (140 mm x 105 mm x 31mm)
Mounting	Wall
Screen	TFT LCD, 1.77", 128 x 160 Pixels (RGB)

COMMUNICATIONS

Bluetooth	Bluetooth 4.1
Wired	RS485 port for Modbus RTU or BACnet MSTP communication 75F OWI sensor port PoR - Power over RS485 to enable communication with the HyperLite and other 75F sensors over two standard thermostat wires.

I/O

Inputs	A. (8) Universal inputs B. (1) OWI to connect to 75F sensors C. (1) POR to connect to 75F sensors
Outputs	C. (4) 0-10V dc or 4-20mA analog outputs D. (8) relays rated at 0.5A at 120V ac or 2A at 24 V ac/dc resistive load

ELECTRICAL

Power	24V AC/DC (+/-15%) with nominal power consumption 1.0W and maximum consumption of 2.5W