Honeywell

Zio® Lite Wall Modules
TR40 AND TR42 MODELS WITH SYLK™

FEATURES

The TR40 and TR42 wall modules include:
- **Two wire, polarity insensitive Sylk provides both power and communication to the device.**
- **Models available with display (TR42) or without display (TR40).**
- **Models available with or without built in humidity or CO2 sensors.**

All TR42 display wall modules include:
- **Override option**
- **Ability for tenant to change between °F and °C**
- **Ability to provide tenant either a relative "warmer-cooler" setpoint adjustment or absolute temperature setpoint adjustment**
- **Fan speed options: Auto-On, Auto-Off-On, Auto-Off-Low-Med-High (Not available on ComfortPoint Open VAV applications)**
- **For Spyder/Niagara users, an installer mode with optional password protection that allows:**
  - **Switching between °F and °C**
  - **Temperature calibration**
  - **Humidity calibration**
  - **Numerical or Graphical setpoint adjustment**
  - **Adjustment of the Setpoint Range Limits**
  - **Adjustment of override time (Choose Network Time or 1-24 hours)**
  - **Choosing the sensor or setpoint value to be shown in the Home Screen, or choose to scroll through sensor and setpoint values**
  - **Choosing between English and International icon display**
- **For ComfortPoint Open users, installer mode is removed from configurations. All configuration is via studio tool**

PRODUCT DESCRIPTION

The TR40 and TR42 are 2-wire, non-polarity sensitive, Sylk communicating wall modules, which communicate with all Spyder® programmable controllers and ComfortPoint™ Open controllers that are enabled with Sylk. Not compatible with Stryker® controllers.

The TR40 and TR42 are simple temperature wall modules with basic setpoint, override, and fan options, and are designed for a broad range of applications. Models are available that include humidity and CO2 sensing.

NOTE: Refer to the forms listed below for more details.
— **62-0467 Installation Instructions**
— **63-2741 Operating Guide**
— **38-00003 Engineering Guide Spec**

SPECIFICATIONS

Models: See Table 1 for a list of models with description.

Environmental Ratings:
- Operating Temperature:
  - Operating Range: 32 to 125 °F (0 to 52 °C)
  - Setpoint Limit: 50 to 149 °F (10 to 65 °C) (Spyder/Niagara users only)
- Shipping Temperature: -40 to 150 °F (-40 to 65.5 °C)
- Relative Humidity: 5% to 95% non-condensing

Accessories:
50007298-001 (pack of 12) medium, cover plate; 6-7/8 x 5 in. (175 x 127 mm).

Approvals: CE; UL94-V0 plastic enclosure; FCC Part 15, Class B

Accuracy:
- Temperature: ± 0.2 °C at 25 °C (± 0.36 °F at 77 °F)
- Humidity: ±3% RH from 20-80%RH
- CO_2: ±(30ppm +3% of measured value).
  - Calibrated at the factory.
  - Uses automatic background calibration. No calibration required for the life of the product.
  - Meets CEC Title 24 requirement of ±75ppm accuracy at 600ppm and 1000ppm ambient levels.
  - For proper CO_2 operation, install only in spaces that see at least 4 hours of continuous unoccupied time per week.

Table 1. Part Descriptions.

Part	Description	Sensors	Communication	Interface
TR40	Wall Module, Temp only, Sylk	Temperature	Sylk	None
TR40-H	Wall Module, Temp and Humidity, Sylk	Temp, Humidity	Sylk	None
TR40-CO2	Wall Module, Temp and CO2, Sylk	Temp, CO2	Sylk	None
TR40-H-CO2	Wall Module, Temp, Humdity, CO2, Sylk	Temp, Hum, CO2	Sylk	None
TR42	LCD Wall Module, Temp only, Sylk	Temperature	Sylk	Configurable: Temp Setpoint Adjust, Override, Fan (if FCU app)
TR42-H	LCD Wall Module, Temp and Humidity, Sylk	Temp, Humidity	Sylk	Configurable: Temp Setpoint Adjust, Override, Fan (if FCU app)
TR42-CO2	LCD Wall Module, Temp and CO2, Sylk	Temp, CO2	Sylk	Configurable: Temp Setpoint Adjust, Override, Fan (if FCU app)
TR42-H-CO2	LCD Wall Module, Temp, Humidity, CO2, Sylk	Temp, Hum, CO2	Sylk	Configurable: Temp Setpoint Adjust, Override, Fan (if FCU app)

Communications

The wall modules use the two wire polarity insensitive Sylk for communication with the programmable controller.

Compatibility

For Spyder/Niagara users, the TR40/42 models work with Spyders manufactured after date code 1220, and work with any Spyder Micro BACnet. Be sure to use an updated Spyder tool to get the TR40/42 functional support.

Also compatible with the ComfortPoint™ Open CPO-VAV2A direct coupled, VAV box controller-actuator.

Setting the Wall Module Address Dial

Every Sylk device wired to a single controller must have a unique address. The address on the wall module must match the address in the control logic.

Sylk Device Capacity

For ComfortPoint Open controllers, a maximum of three (3) TR40/42s can be supported by a single controller.

For Spyder controllers, to determine the maximum number of Sylk devices, including Zio Lites, please refer to the Sylk Device Capacity Calculation Tool on the Buildings Forum. Sylk Capacity can also be determined, and should always be verified, using the Resouce Usage view in the Spyder Tool itself. Total Sylk proxy file memory, total Sylk power consumption, and total Sylk bandwidth must all fall below maximum limits.

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