TS-3

Reheat Control Station



The TS-3 Thermostat Station is designed to provide “reheat” control for air conditioners that are capable of a Reheat function. Reheat is simply defined as the ability for a HVAC system to activate cooling and heating at the same time. When an HVAC is operated using reheat, a significant amThe TS-3 Thermostat Station is designed to provide “reheat” control for air conditioners that are capable of a Reheat function. Reheat is simply defined as the ability for a HVAC system to activate cooling and heating at the same time. When an HVAC is operated using reheat, a significant amount of dehumidification is possible without further reducing the temperature within the controlled space. This basically allows the users to utilize the existing refrigeration circuit of their HVAC unit, to also act as a dehumidifier. The TS-3 is intended for use with the TrolMaster HCS-2 and HCS-3 controllers and will manage temperature control and supplemental dehumidification. It can be used with single stage HVAC systems / Heat pumps that are capable of operating in this configuration.

***NOTE:** Mini-split AC units and VRF systems are normally NOT compatible with the TS-3 and reheat.

One of the key features of the TS-3 is its ability to perform dehumidification by activating both heating and cooling simultaneously. However, this function requires the HVAC unit to be capable of receiving both heat and cool signals at the same time. Standard HVAC systems may not support this without special configuration or modification.

***NOTE:** Improper use could lead to equipment damage. Always consult with an HVAC professional to confirm your system can be controlled as described here.

Reminder: The connected HVAC / Heatpump device must allow both cooling and heating to be activated simultaneously, or it may cause damage to the equipment.

The TS-3 connects to the HVAC system using standard low-voltage (24vac) thermostat cable, with color-coded wiring for simple installation. The TS-3 wires like any standard 4-wire thermostat and provides signals for Cool, Heat and Fan control. Once the TS-3 is wired and connected to the HCS-2 or HCS-3 controller, you will be able to set separate Day and Night Temperature and Humidity settings for EACH TS-3 module connected. That allows multiple “stages” to be set up by the user. You can also select to only operate the reheat (supplemental dehumidification) during the Night, Day or 24-hours a day. Adjustable time delays to prevent quick-cycling / hot-starts are also integrated into the HCS-2 and HCS-3 controllers. The dehumidification process within the HVAC / Heatpump involves two steps. First the warm / Humid air enters the air handler where the air is cooled to remove moisture, followed by reheating the air before recirculating the treated air back into the growing space. This functionality helps maintain comfortable and optimum temperatures and to reduce and control humidity.

***NOTE:** The ability to use the TS-3 is dependent on the compatibility of the HVAC system to handle simultaneous heating and cooling operations.

Specifications

TS-3

Input Voltage

Input Voltage	12V~

IP Rating

IP Rating	IP20

Maximum Current

Maximum Current	0.1A

Working Environments

Temperature	32~122°F (0~50°C)
Humidity	≤90%RH

Package Dimensions

Size	6.30inch / 160mm(L) x 3.39inch / 86mm(W) x 3.39inch / 86mm(H)
Gross Weight	0.88lbs / 0.40kg

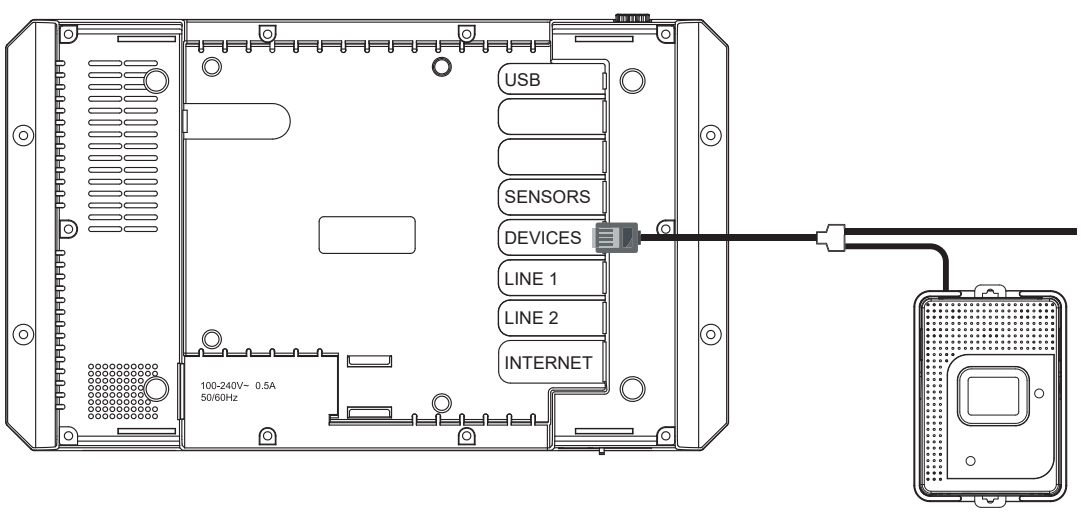
Package Contents

Reheat Control Station	1pc
16ft RJ12 Cable	1pc
4ft RJ12 Cable	1pc
T-shaped Splitter	1pc

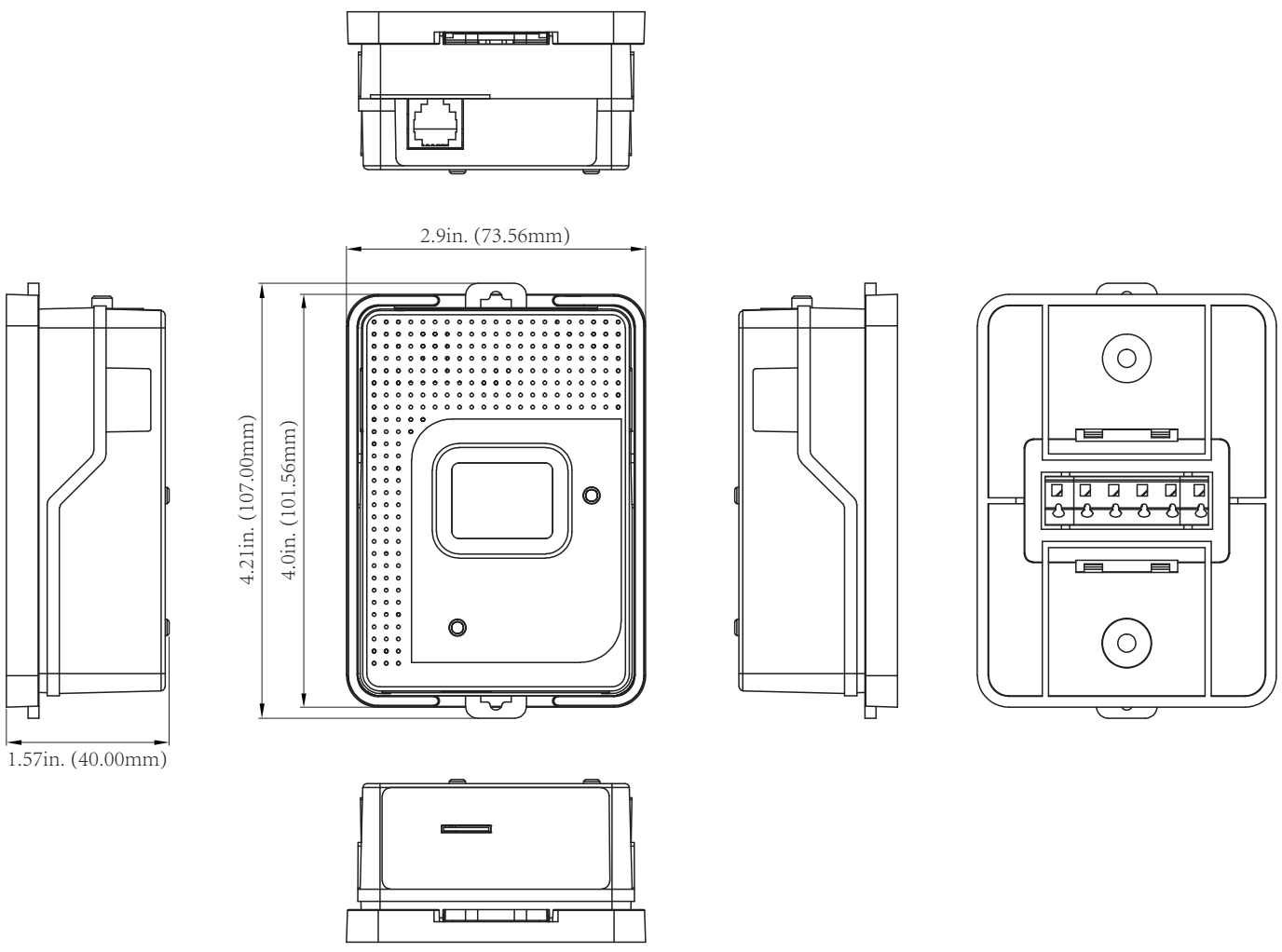
Link Up

TS-3

Connection Diagram



Product Dimensions



FC RoHS

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