TrolMaster

HS-1
Humidistat Station

For Hydro-X Control System

Overview

Thank you for purchasing the TrolMaster's HS-1 Humidistat Station. It is specially designed to control dehumidifier with 24V terminal.

With the connection to Hydro-X by four data lines through the four ports on the back panel, user can use HS-1 to control any dehumidifier with 24V terminal. Choose your desired humidity setpoint for the Day / Night mode (see Humidity Settings in Hydro-X's instructions P19-20), the HS-1 will control the dehumidifier based on the setpoint.
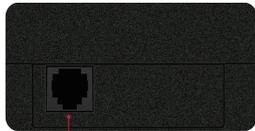
The LCD screen of HS-1 will display the setpoint humidity (upper part) and current humidity (lower part). When the current measured humidity is higher than the setpoint, the HS-1 unit will control the dehumidifier to decrease the humidity to normal setpoint.
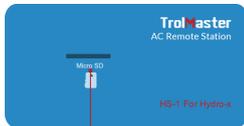
Features

- Digital Control of Relative Humidity (digital set-point)
- LCD Display, Easy Operation
- Micro-SD for Firmware Update
- Seamless Connectivity with Hydro-X
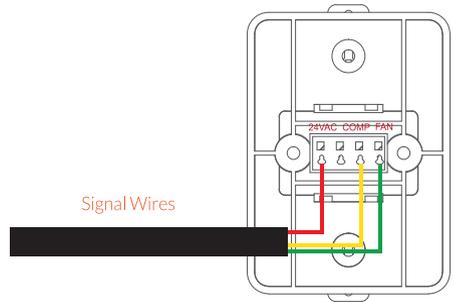- Control Dehumidifier based on Humidity Setpoint

Installation

Pull the 2 tabs outward to release the bracket from the unit, mount the bracket to wall or surface near the dehumidifier. Peel off the outer sheath of all signal cable of a dehumidifier to reveal the copper wire. Then, insert each bare wire into the corresponding terminals on the back panel while pressing the button of the terminal designation at the same time. Release the button to clamp the wire in each terminal. Verify wire is firmly secured by gently pulling on wire. Finally, place the unit back on the bracket and press the 2 tabs back in to lock the unit in place.

FAN Button

LED Screen

TrolMaster
Thermostat Station

Addressing Button

Addressing   TS - For Hydro-X

RJ12 Cable Socket

TrolMaster
AC Remote Station

Micro SD
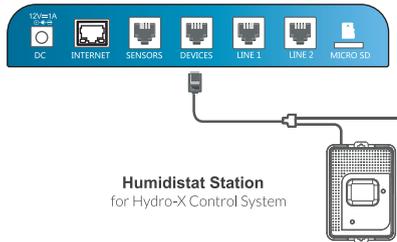
HB-T For Hydro-x

Micro SD Slot

24VAC COMP FAN

Signal Wires

Operation Instructions

1. Connection to Hydro-X

When the signal wires are successfully connected to the HS-1 unit, and then connect the HS-1 to the Hydro-X with a RJ12 cable through the DEVICES socket on the bottom of Hydro-X, so now you can see the performance of the HS-1 unit. See below connection diagram for reference.

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After power-on, the LCD screen of HS-1 will show "Please press Addressing Key" accordingly when the HS-1 is connected correctly. Otherwise, it will show "Offline" when the HS-1 is connected incorrectly.

Correct Connection

Incorrect Connection

2. Address Assignment

Press the Addressing button on the HS-1 unit so that the Hydro-X will assign an address such as H1 to HS-1 unit accordingly. The LCD screen of Hydro-X will display "Station H1 has been added". Please note H1 is not the constant product code, it can be H2 depending on the connection sequence of the dehumidifier device. The first one is marked as H1, the second one as H2.

LCD Screen of HS-1   Addressing   LCD Screen of Hydro-X

You can also check the address code on the Hydro-X as shown below:

Main Menu of Hydro-X   Left Button   Devices Status of Hydro-X
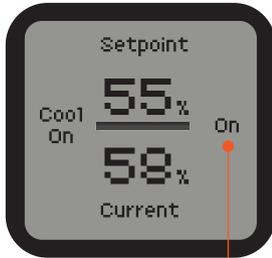
3. FAN Setting

Press FAN button to select ON or AUTO (toggle to re-select) mode for the fan inside an air-conditioner.
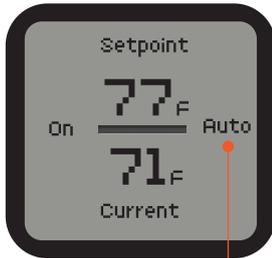
AUTO: Fan runs only when the heating or cooling system is on. Auto is the most commonly used setting.
ON: Fan is always on.
NOTE: Options may vary depending on your heating/cooling equipment.

ON Mode （FAN）

AUTO Mode （FAN）

4. Firmware Upgrade

Press and hold "Addressing" button while replugging the RJ12 cable, the upgrade process will be done automatically.

NOTE: Make sure the file name of firmware upgrade should be named as "hs1_update.hex".

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