

# TrolMaster HS-1 Hydro-X Control System



## TrolMaster HS-1 Hydro-X Control System User Manual

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# TrolMaster

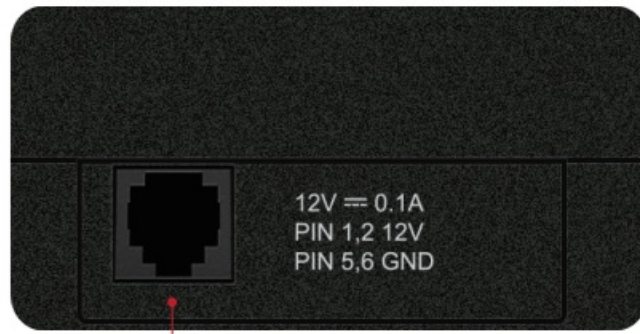
TrolMaster HS-1 Hydro-X Control System



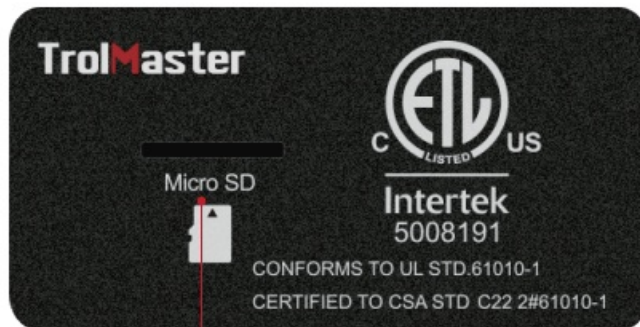
## OVERVIEW

Thank you for purchasing the TrolMaster's HS-1 Humidistat Station. It is specially designed to control a dehumidifier with a 24v terminal. With the connection to Hydro-X by four data lines through the four ports on the back panel, users 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, P13-14), 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 the normal setpoint





RJ12 Cable Socket



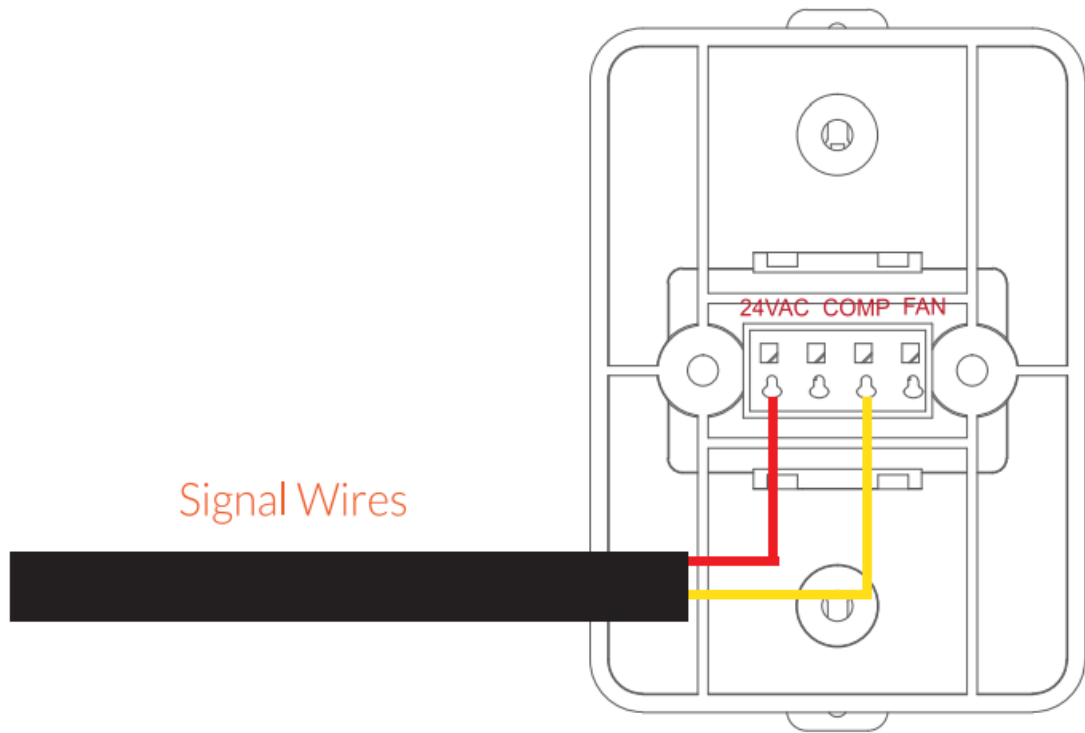
Micro SD Slot

## 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

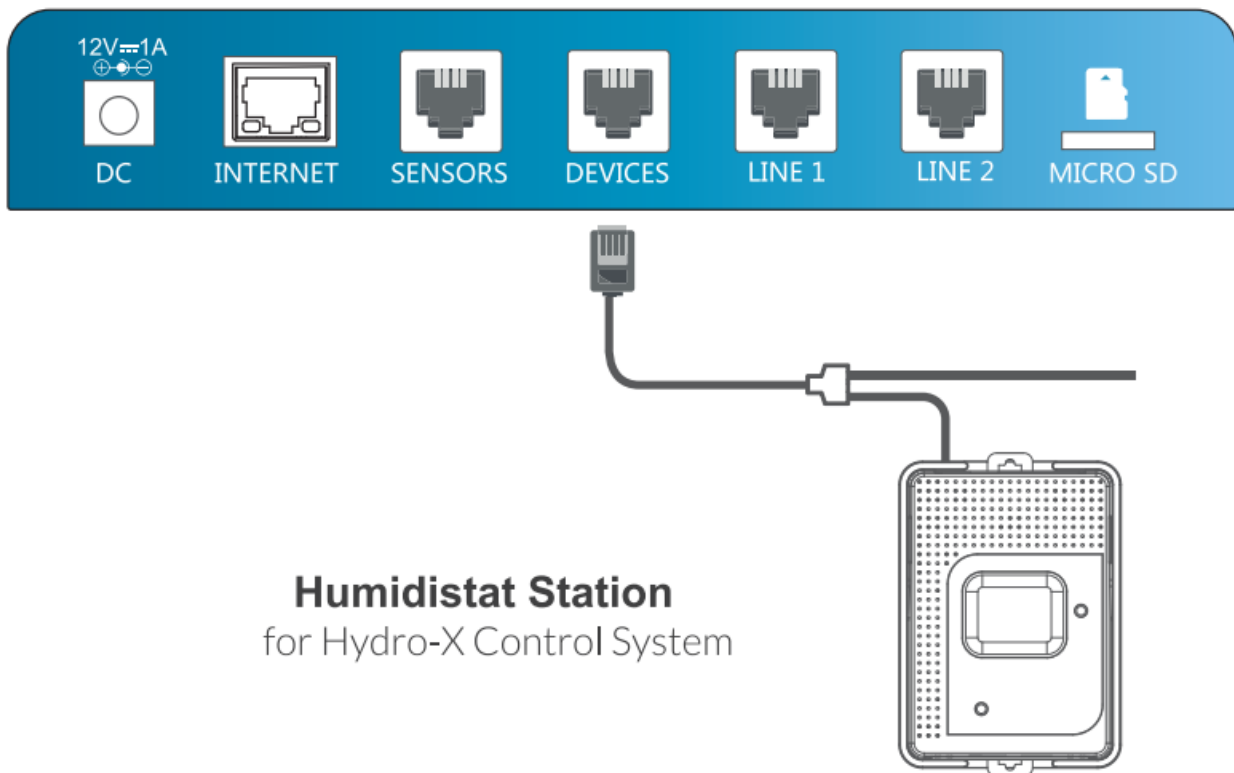
Pull the 2 tabs outward to release the bracket from the unit, and mount the bracket to the wall or surface near the dehumidifier. Peel off the outer sheath of all signal cables of a dehumidifier to reveal the copper wire. Then, insert each bare wire into the corresponding terminals on the back panel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



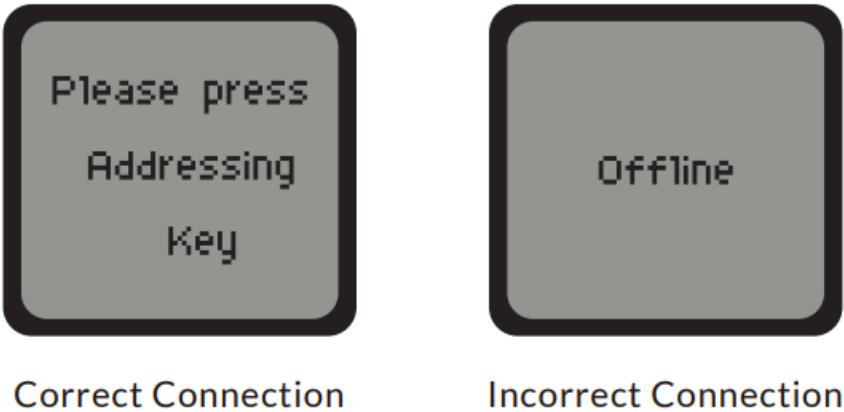
## OPERATION INSTRUCTIONS

### 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 an RJ12 cable through the DEVICES socket on the bottom of the Hydro-X, so you can now see the performance of the HS-1 unit. See below connection diagram for reference.

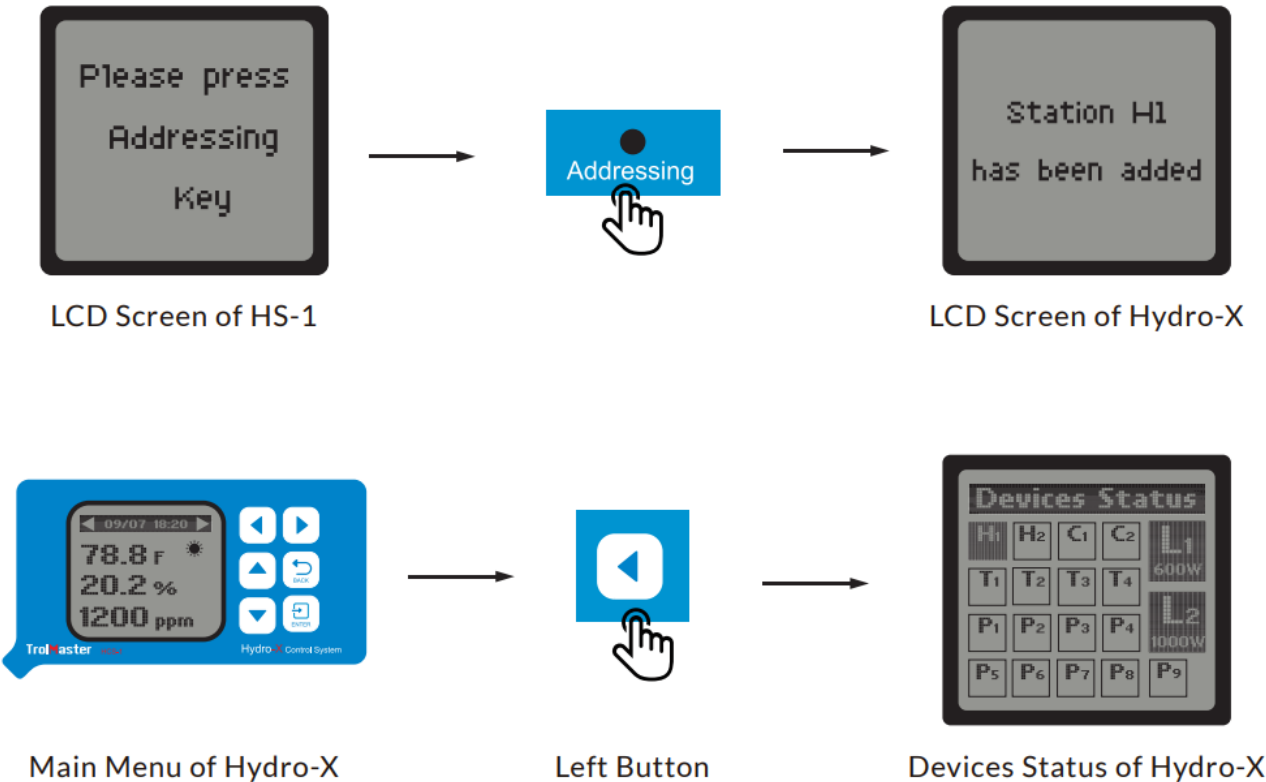


After power-on, the LCD screen of HS-1 will show “Please press Addressing Key” accordingly when HS-1 is connected correctly. Otherwise, it will show “Offline” when the HS-1 is connected incorrectly.

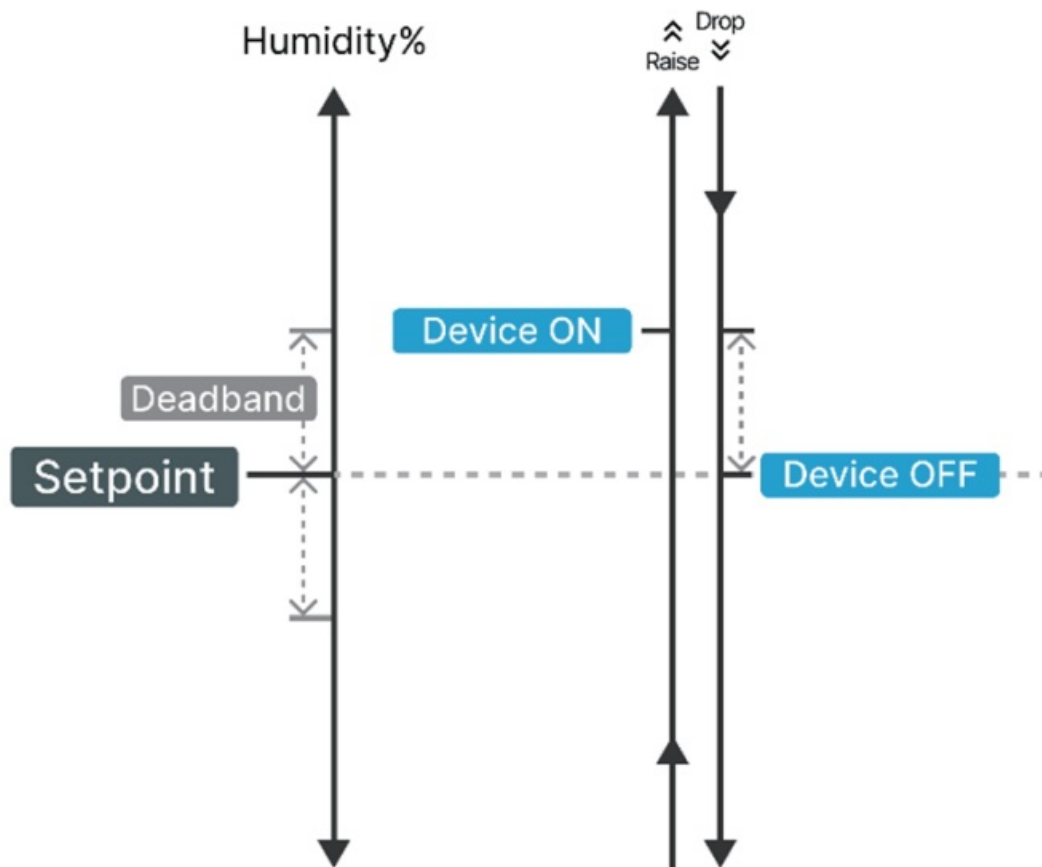


**Address Assignment**

Press the Addressing button on the HS-1 unit so that the Hydro-X will assign an address, such as H1, to the 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 second one as H2.



**HS-1 Operation**

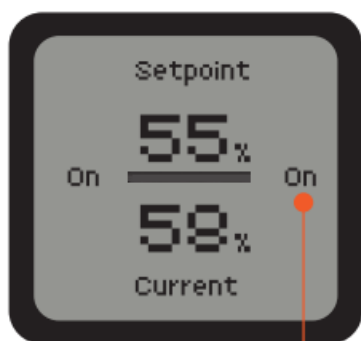


The HS-1 will turn on the dehumidifier automatically depending on the variance between the current humidity and the setpoint. For example, when the current humidity is HIGHER than the setpoint, the HS-1 will start the dehumidifier and display “ON” on the screen.

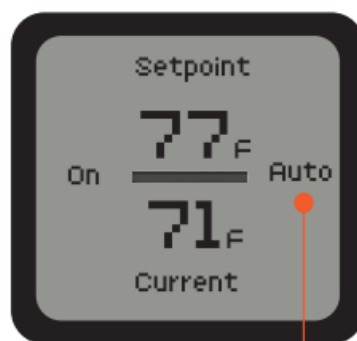
## Fan Setting

Press button to select ON or AUTO (Toggle to re-select) mode for the fan.

- AUTO: Fan runs only when the dehumidifier is ON.
- ON: The dehumidifier is always ON.
- NOTE: Options may vary depending on your dehumidifiers.



ON Mode (FAN)



AUTO Mode (FAN)

## Firmware Upgrade

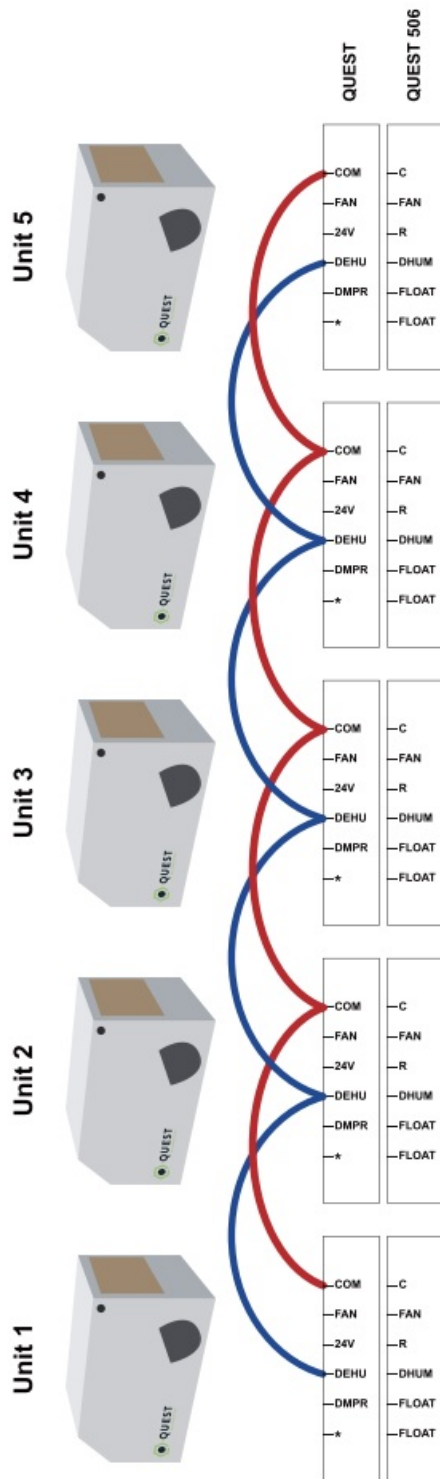
Press and hold “Addressing” button while replugging the RJ12 cable, the upgrade process will be done automatically.



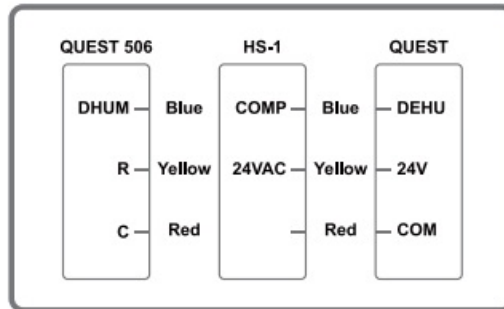
NOTE: Make sure the file name of the firmware upgrade is named as “hs1\_update.hex”.

### Diagram Appendixes

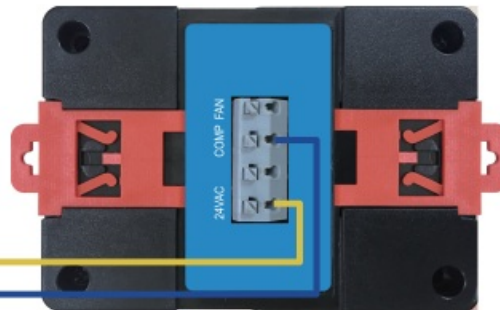


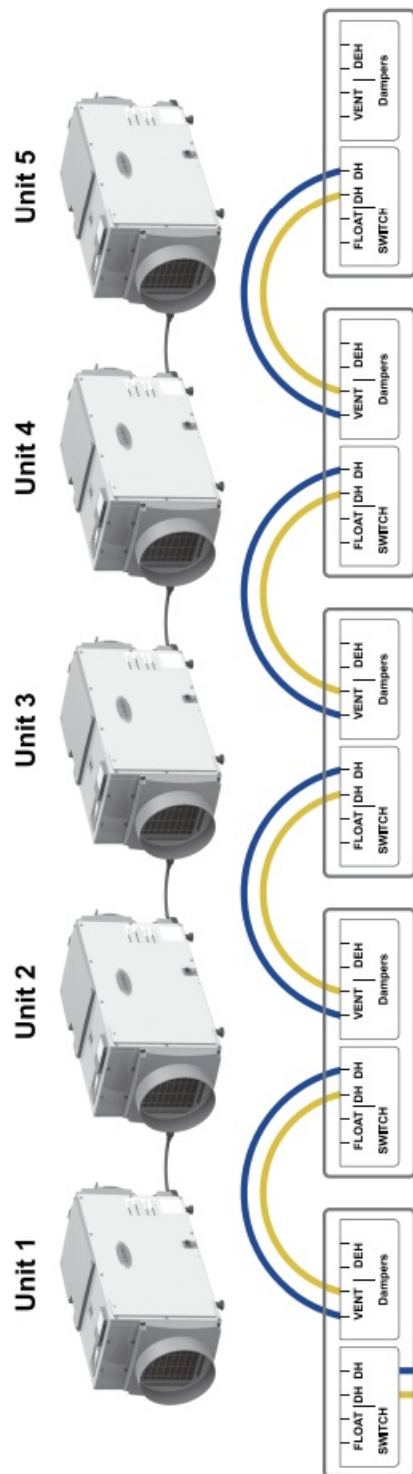


**HS-1 wiring Diagram For Quest**

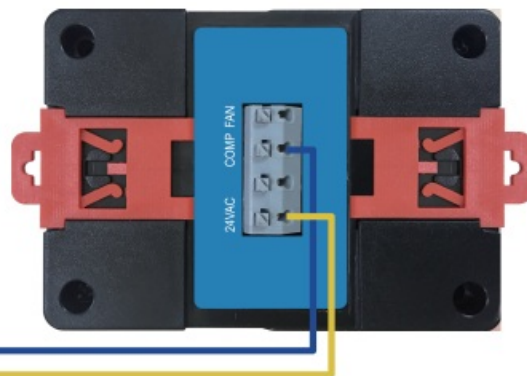
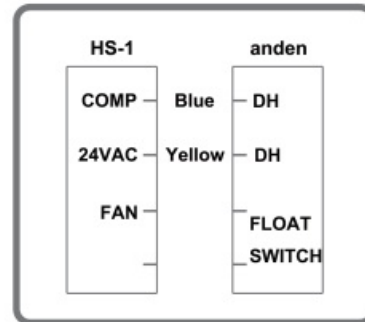


**\*Note - Do not wire in "Fan" terminal with this application\***





HS-1 Wiring Diagram For anden



## SPECIFICATIONS

Certifications	ETL / FCC
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Degree of Ingress Protection	IP20
Indice de protection	IP20
Input Vpltage	12V
Maximum Current	0.1A
Working Environments	Temperature 32-122°F
	Humidity≤90%
Package Dimensions	160mm(L) x 86mm(W) x 86mm(H)

## GENERAL INFORMATION

- a) Please use TrolMaster's components for better performance.
- b) In the case of defects of the Humidistat Station, the Humidistat Station will either be replaced or repaired using new or reconditioned products or parts by TrolMaster within a three-year warranty from the original date of purchase. For service, return the Humidistat Station in good packaging to our agent with the original sale receipt.
- c) Non-professionals DO NOT open the cabinet to prevent electric shock or damage to the Humidistat Station.

## WARNING

- DO NOT allow the Humidistat Station to be exposed to water or excessive heat.
- DO NOT open or attempt to repair or disassemble the Humidistat Station, as there are no user-serviceable parts inside.

### Opening the controller will void the warranty.

1. If the surface of the Humidistat Station is dirty, wipe it with a dry towel.
2. The Humidistat Station is designed for indoor use only, it should be operated under natural ventilation conditions.
3. For safety, it's necessary to connect the ground wire. If a short circuit did occur, the current would flow through the ground wire, causing a blown fuse or tripped circuit breaker.
4. The Humidistat Station should be positioned in a place that it's easily to be pull out when a fault occurs.


For any issues or concerns with our products, DO NOT return them to the store. Please contact our tech support department at [support@trolmaster.com](mailto:support@trolmaster.com) or call [877-420-9876](tel:877-420-9876). June 2024

## FAQ

- **Q: What should I do if I encounter issues with my Humidistat Station?**

- A: In case of defects, please contact TrolMaster within the three-year warranty period for repair or replacement. Do not attempt to open the cabinet yourself to prevent electric shock or damage.
- **Q: Can I use components from other brands with the Humidistat Station?**
  - A: It is recommended to use TrolMaster's components for better performance.

## Documents / Resources

	<p><a href="#">TrolMaster HS-1 Hydro-X Control System</a> [pdf] User Manual            HS-1, HS-1 Hydro-X Control System, HS-1, Hydro-X Control System, Control System</p>
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## References

- [User Manual](#)

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