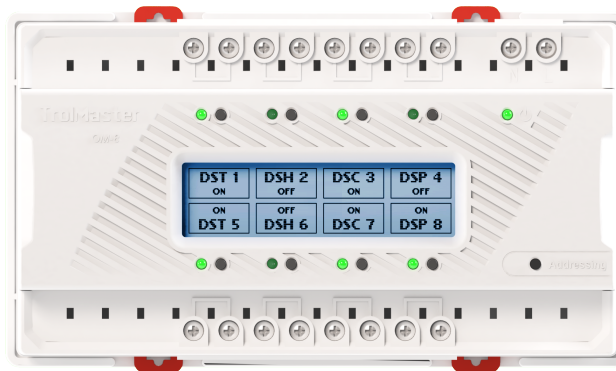


Dry Contact Board (OM-8) User Manual



OM-8 | Dry Contact Board

OVERVIEW

The OM-8 Dry Contact Board is a commercial device module featuring 8 separate dry contact relays. It is specially designed for use with any TrolMaster Hydro-X, Aqua-X, Tent-X, or Green-X Control System. This module allows you to hardwire and control up to 8 individual devices.

The OM-8 connects to the device port on the main controller using a standard RJ12 cable. It should be mounted inside an electric control cabinet and requires a power supply between 100-240 VAC.

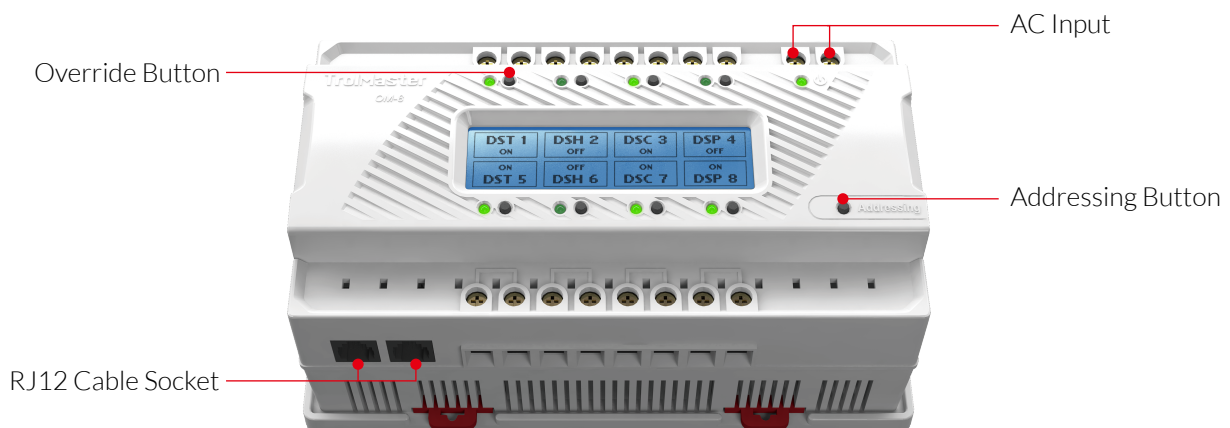
PACKAGE CONTENTS

- 1 x Dry Contact Board
- 1 x 16ft RJ12 Cable

FEATURES

- **8 Individual Outputs:** The board features 8 separate electrical contacts, allowing up to **12 Amps of current** through each contact.
- **Universal Device Assignment:** Each of the 8 separate outputs can be individually configured (addressed/assigned) on the main controller to function as a:
 - a. **Timer (DSP)** module
 - b. **Temperature (DST)** module
 - c. **Humidity (DSH)** module
 - d. **CO2 (DSC)** module

This universal configuration enables the OM-8 to control a wide range of devices, including cooling, heating, dehumidification, humidification, lights, CO2 regulators, and irrigation pumps or solenoids.
- **Overload Protection:** Includes overload protection on each of the 8 outputs.
- **Manual Override:** Each contact can be forced open or closed for a duration of 30 minutes for testing or temporary operation.
- **Sequential Start-up Delay:** Includes a default 3-second delay between outlets being activated simultaneously, which minimizes high start-up current (inrush current) when controlling multiple devices. This delay value is adjustable.



SPECIFICATIONS

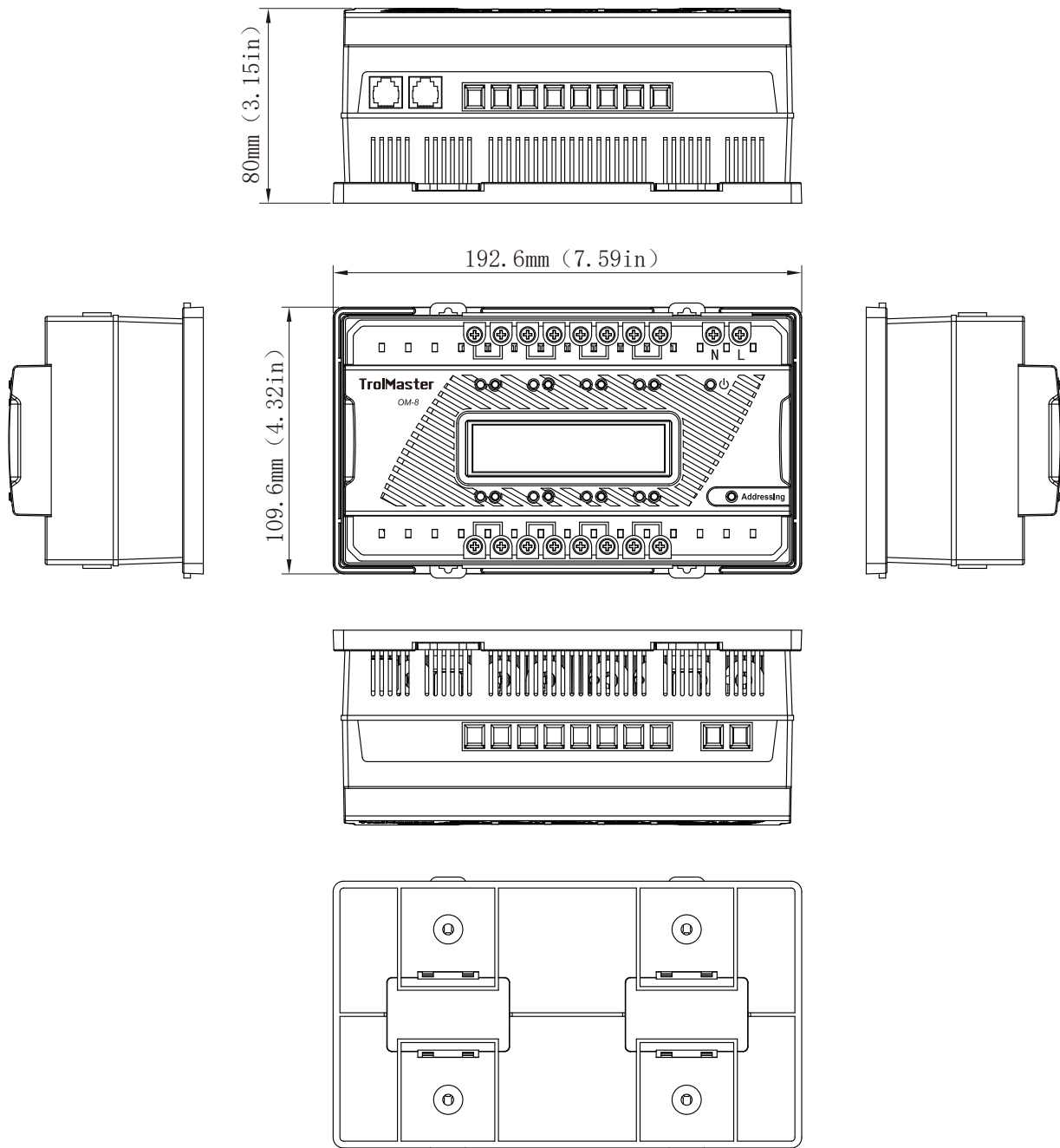
Input Voltage	100-240V~, 50/60Hz, 0.15A
Maximum Relay Amperage	12A per Output (@250VAC / @30VDC)
Degree of Ingress Protection	IP20
Package Weight	2.67lbs / 1.21kg
Operating Environments	Temperature: 32~104°F (0~40°C) Humidity: ≤90%RH
Package Dimensions	10.04inch (L) x 5.31inch (L) x 3.66inch (L) 255mm (L) x 135mm (W) x 93mm (H)



CONFORMS TO
UL STD.61010-1
CERTIFIED TO CSA
STD.C22.2#61010.1



DIMENSIONS

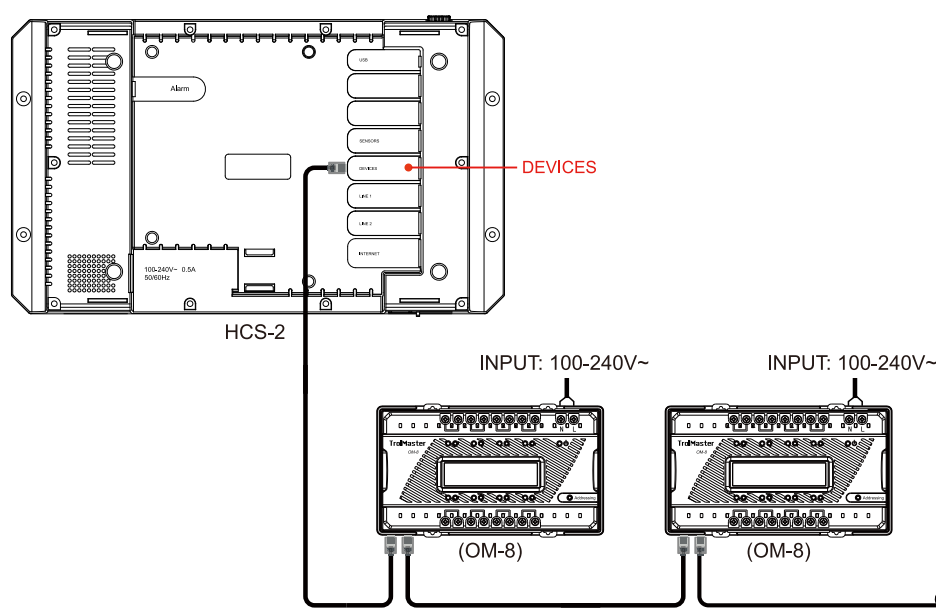


INSTALLATION

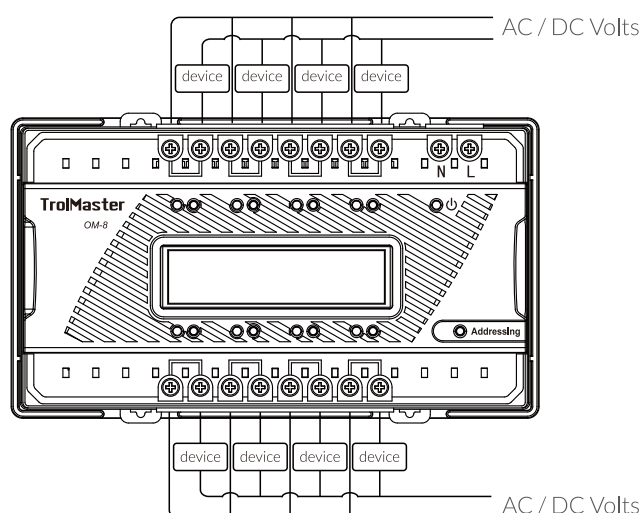
Caution: This device must be mounted inside an electric control cabinet, and the cabinet should be locked at all times. The electric control cabinet should not have any perforations. The OM-8 terminals act as a switch. User must provide the external device (load) and the necessary line voltage power source, routing the power through the OM-8 contacts to complete the circuit.

Note: A small circuit breaker (e.g., 6A) is required for the OM-8 operation.

- 1. Mounting:** Pull the 4 tabs outward to release the bracket from the unit, and mount the bracket to an electric control cabinet. Place the unit back on the bracket and press the 4 tabs back in to lock the unit in place.
- 2. Power Connection:** Connect the unit to the power supply (100–240 VAC).
- 3. Controller Connection:** Connect the OM-8 to the Main controller (HCS-2, NFS-2, or GCS-1) using a standard RJ12 cable. Connect the RJ12 cable to the device port on the main controller.



* Connection ports on NFS-2: PUPMS and VALVES.



OPERATION INSTRUCTIONS

1. Addressing the OM-8 Outputs

The OM-8's 8 terminals are universal. Before use, you must designate what type of device (Temperature, Humidity, CO2, or Timer) each output will control on the main controller.

- After correctly powering and connecting the OM-8 to the controller, the initiation process will begin.
- Start with terminal #1 (top left). Locate the button next to it.
- **Repeatedly press** this button to cycle through and select the module type:
 - DST** - Temperature
 - DSH** - Humidity
 - DSC** - CO2
 - DSP** - Program (Timer)
- Once the desired module type is selected (e.g., DST), **press the Addressing button** to register the terminal as a device module with the main controller.
- Repeat this process for terminal #2 and subsequent terminals.

***Note:** If you plan to use fewer than 8 outputs, leave the next unaddressed terminal flashing for approximately 10 seconds. The OM-8 will then automatically end the initiation process.

The OM-8 features eight universal terminals. Before use, each output must be assigned a device type (Temperature, Humidity, CO2, or Timer) on the main controller.

The main controller will then send signals to control up to 8 individual outputs on the OM-8. The names of each of the outputs will be displayed differently on the OM-8 and the controller.

2. Adjusting Output Delay Time

When two independent outputs are activated by the controller at the same time, there is a default 3-second delay between each outlet activating. This delay minimizes high electrical start-up current.

To adjust the default time delay value:

1. While the OM-8 is connected to the main controller, **press the Addressing button for 3 seconds** to enter the setting mode.
2. Change the time delay value by short-pressing the button.
3. Long-press the button again to save the setting.

Output delay time:3 sec
Press the addressing to change

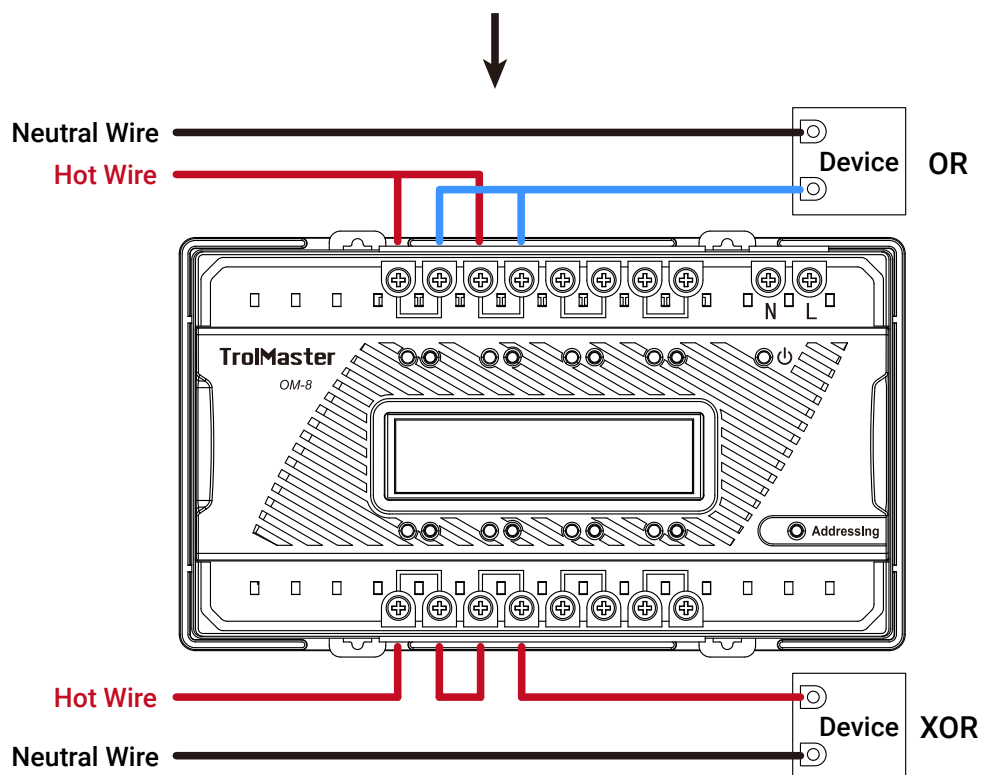
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3. Advanced Hardwiring: Dual Condition Interlock

The dry contact outputs of the OM-8 can be physically hardwired using two separate outputs to create an interlock function, allowing a single external device to be controlled based on two environmental or timing conditions.

Wiring Configuration	Condition Logic	Functionality	Examples
Series Circuit	BOTH conditions must be activated TOGETHER for the final device to be activated.	Connect two OM-8 outputs (e.g., Output 1 and Output 2) in a series circuit. Both modules must command "ON" for power to flow to the external device.	Trigger the exhaust fans to start if the CO2 level is over the set point during the night cycle, when both conditions are met at the set point.
Parallel Circuit	EITHER condition can be activated individually for the final device to be activated.	Connect two OM-8 outputs (e.g., Output 1 and Output 2) in a parallel circuit. The device activates if Output 1 commands "ON" OR if Output 2 commands "ON."	Turn on an exhaust fan to reduce temperature or humidity. Turn on an exhaust fan at night using a recycling timer, OR when the Humidity is too high.

Parallel Circuit Example



Series Circuit Example

LED INDICATOR STATUS

Slow Blinking Green	Module is addressed, connected, and currently turned OFF (Power Off Status).
Solid Green	Module is addressed, connected, and currently turned ON (Power On Status).
Blinking Red	Module is overloaded. Press the button next to the LED to reset.

 **WARNING: DO NOT** allow OM-8 to be exposed to water or excessive heat. DO NOT open or attempt to repair or disassemble the OM-8, as there are no user-serviceable parts inside. Opening the OM-8 will void the warranty.

If the surface of OM-8 is dirty, power it off and wipe it with a dry towel. The OM-8 operates under natural ventilation conditions.

 **AVERTISSEMENT: N'exposez PAS** l'OM-8 à l'eau ou à une chaleur excessive. N'ouvrez pas l'OM-8, ne tentez pas de le réparer ou de le démonter, car il ne contient aucune pièce réparable par l'utilisateur. L'ouverture de l'OM-8 annulera la garantie.

Si la surface de l'OM-8 est sale, éteignez-le et essuyez-le avec un chiffon sec. L'OM-8 fonctionne dans des conditions de ventilation naturelle.

ENVIRONMENTAL AND DISPOSAL CONCERNS:

THIS PRODUCT CONTAINS A BATTERY AND OTHER COMPONENTS WHICH MUST BE DISPOSED OF PROPERLY.



This symbol displayed on a product, its accessories, or its packaging indicates that this product may not be discarded as household waste. Dispose of the equipment through a recycling center that handles electronics and electrical appliances. By disposing of the equipment in the proper and lawful way you will be helping to prevent possible damage to the environment and risk to public health.

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 or call **877-420-9876**.

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