

M00-20-8312 OM4 Output Module



NOTE: Before you use this guide, make sure you have the latest revision. Check the revision level of this document against the most current revision found at <http://www.opwglobal.com/opw-fms/tech-support/manuals-how-to-videos>. Download the latest revision if necessary.



OM4 Output Module

The OM4 Output Module expands the tank-gauge console functions by allowing up to 4 (four) OM4 units each with 4 (four) relay positions for a total of 16 relays. The OM4 communicates with the controller via Petro-Net™ and is powered by a 12 VAC wall pack source that is supplied with the unit. See the wiring instructions inside the OM4 unit for the correct Petro-Net™ communications and power wiring connections.

See the tank-gauge console Configuration Manual for information on programming the alarms, events and Output Module relay associations.

Some common OM4 functions include:

- Turn off a submersible pump when low product is sensed in a tank.
- Activate an alarm when high product is sensed in a tank.

Safety Precautions

WARNING: DO NOT connect the OM4 output Module directly to a submersible pump! The OM4 controls pumps INDIRECTLY, through relays or contactors.



High voltages exist inside the OM4. Only qualified technicians should open the unit.

Output relays in the OM4 are not intrinsically safe! Before working on the OM4 Output Module, disconnect the power, including power to and from the relays.

Do not place probe and/or sensor wiring in conduit that contains wiring for devices that are connected to the OM4 Output Module.



Codes

Relay wiring is classified as Class 1 wiring. Installations must be in accordance with the National Electrical Code (NFPA No. 70) and the Motor Fuel Dispensing Facilities and Repair Garages Code (NFPA No. 30A). It is the installer's responsibility to investigate and obey any applicable local codes in the country\county of installation.

Hazardous Area Definition

A fuel dispenser is a hazardous area as defined in the National Electrical Code.



DANGER: Do not mount the OM4 Output Module within a hazardous area.

Do not attach this unit to any devices that are located in the hazardous area.



OM4 Technical Specifications

| OM4 Technical Specifications | |
|------------------------------|--|
| Field Wiring Rating: | 105°C, 600V Type RH. TW, RFH-2 or equivalent |
| Power Requirements: | 12 VAC, 0.5A Max. |
| Dimensions (W x H x D): | 15 cm x 15 cm x 10 cm (6" x 6" x 4") |
| Temperature Rating: | 0°C – 40°C (32°F – 104°F) |
| Relay Output Rating: | 5A @ 240 VAC; 5A @ 24 VDC |

Product Certifications

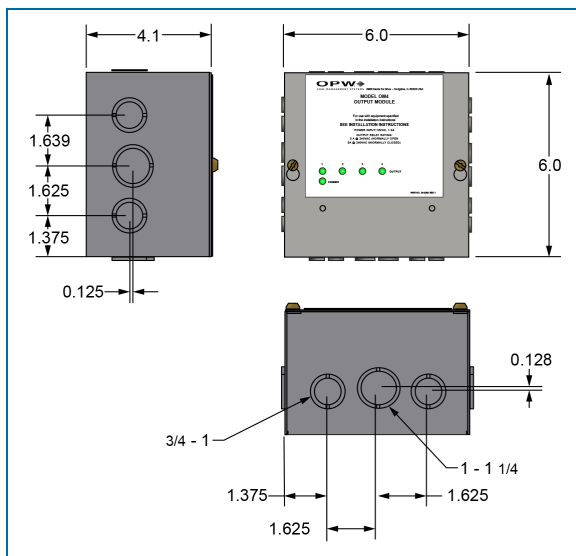
- Electronic Testing Labs Canada (cETL)
- Electronic Testing Labs (ETL)

OM4 Installation

The OM4 must be mounted on a wall using only the mounting holes provided. Knockout locations are shown below. OM4 Modules require communication connection to the console and AC power.

The OM4 module is not NEMA-rated and must not be mounted with direct exposure to the elements.

Only use the knockouts provided. Seal all unused knockouts.

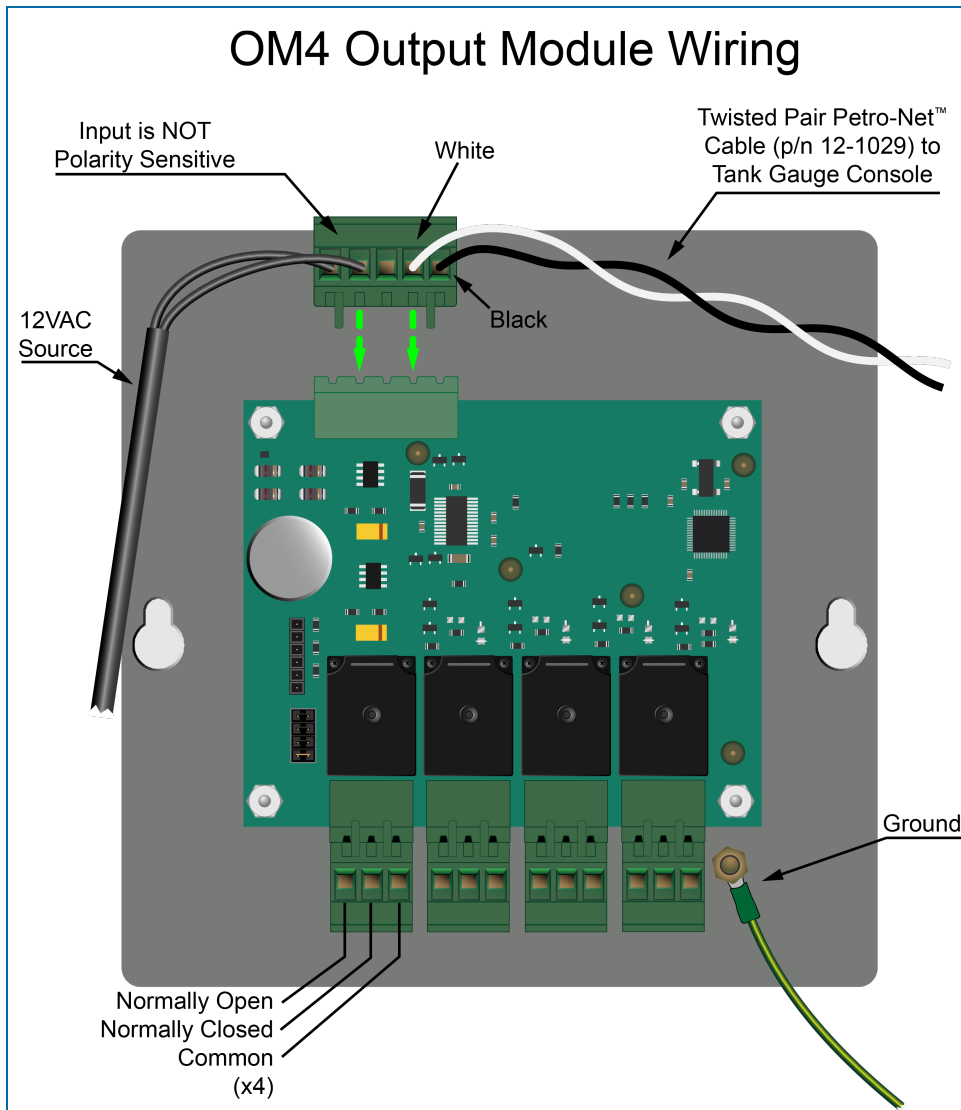


OM4 Dimensions and Knockout Locations

OM4 Connections

Follow the wiring instructions inside the module for proper Petro-Net communications and power wiring instruction.

Connect all relay wiring to the appropriate terminal block(s).

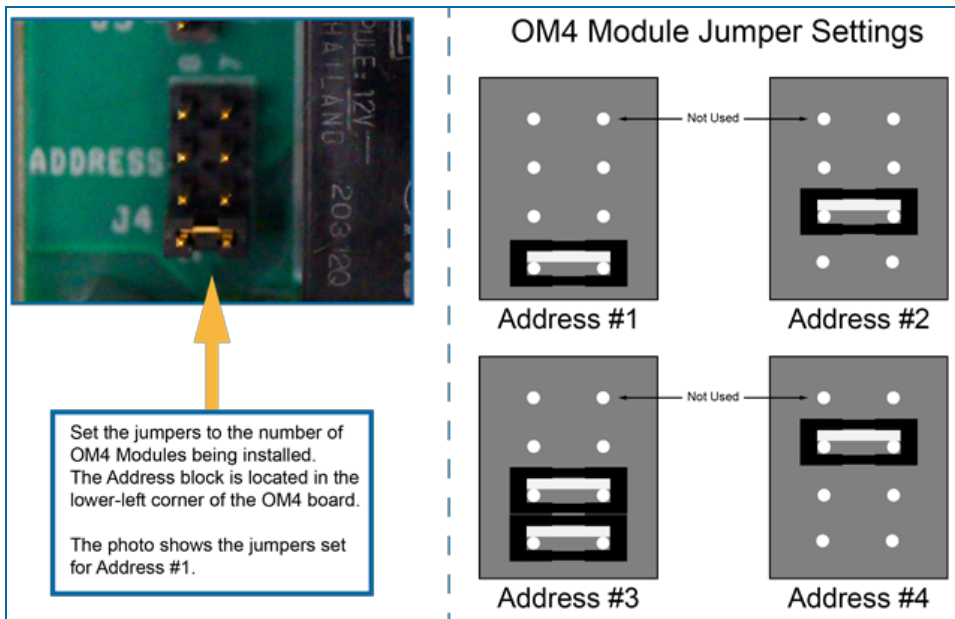


OM4 Wiring Connections

Jumper Settings for Multiple OM4 Operation

To install 2 or more OM4 Output Module boxes:

- Remove the nuts that attach the aluminum cover.
- Remove the cover. This will expose the circuit board.
- Set the jumpers to the correct address.
- Place the aluminum cover on the unit.
- Attach and tighten the nuts.



OM4 Jumper Settings for Multiple OM4 Operation