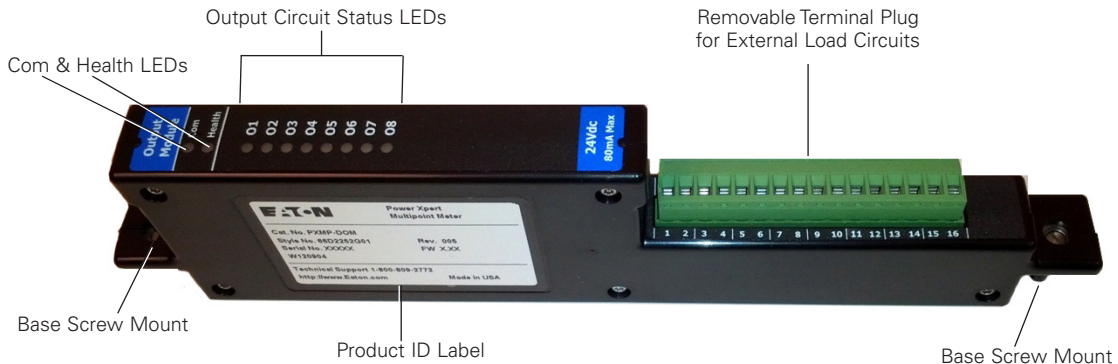


# Power Xpert Multi-Point PXMP-DOM Digital Output Module



For use with PXMP Power Xpert Multi-Point Meter.

## **⚠ NOTICE**

**PLEASE REFER TO THE PXMP USER MANUAL MN150001EN FOR COMPLETE PXMP SYSTEM DETAILS AND SPECIFICATIONS.**

The PXMP-DOM Digital Output Module is designed to be used with the PXMP-MB (-AB) Meter Bases plugging into any of the ten module slots.

The Digital Output Module supports up to eight independent solid state relay outputs wired through the 16 position removable terminal plug for PXMP Meter application alarm purposes. Each output is electrically independent and requires an external 24 Vdc power source and a load that can draw up to 80 mA max. See Figures 1 and 2. Each output can be controlled remotely over Modbus or driven by PXMP Meter application logic and configuration settings.

Each Digital Output Module has the following LEDs

- Com Green LED – Meter/Base com. activity
- Health Green LED – normal = ~ 1 Hz blink
- 1-8 Output Status Green LED indicators

A detailed product identification label is on the left side of all Digital Output Modules, which may be obscured by adjacent modules once assembled into the Meter Base. This information can be viewed through the PXMP-MB configuration port.

## **⚠ WARNING**

**BE SURE THAT ALL SYSTEM POWER IS OFF WHEN ASSEMBLING A PXMP METER INCLUDING THE INSTALLATION OF THE PXMP-DOM MODULE AND ITS ASSOCIATED EXTERNAL OUTPUT CIRCUITS.**

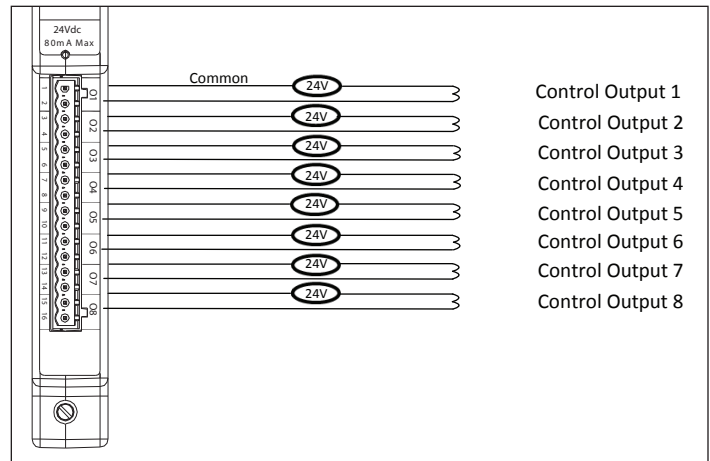
To install a Digital Output Module into the PXMP-MB, first remove the metal slot cover on the Meter Base using a compatible Phillips head screw driver for the screws at top/bottom. Remove the Meter Module from its packing and remove the black plastic retainers from the mounting screws. Align the Module connectors and screw mounts with those of the Meter Base. Then push the Module into the Base and tighten down the mounting screws until the module housing is tight against the backplane.

# **EATON**

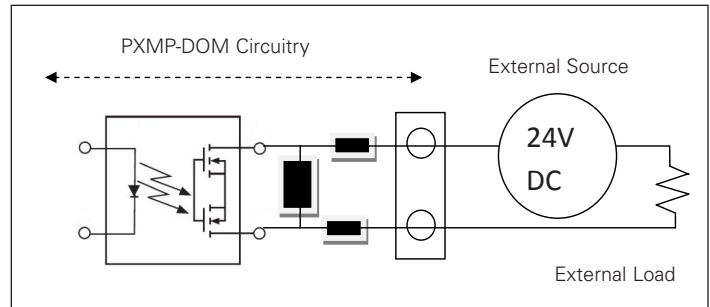
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**PXMP-DOM Digital Output Module Specifications:**

- PXMP-MB (-AB) Meter Base slot positions 1-10
- Each Output Module controls eight electrically Independent Solid State Relays.
  - Circuit to Circuit isolation 100 V
  - Group isolation to ground 2000 V
- Solid State Relay series impedance 10 ohms typical
- Circuit rating 24 Vdc (externally sourced) and 80 mA max.
  - 30 V TVS clamp diodes across SS relay
- 24 Vdc should come from a local source dedicated for PXMP use only. Do not connect to a CAT III bus.
- External load circuits are wired through a removable terminal plug supporting wire sizes of 12-18 AWG (3.31-0.82 mm<sup>2</sup>) (wire ferrules recommended).
- Application/Output response latency 1.0-6.00 Sec.
- Housing NEMA 1, IP20 installed in Meter Base and cables inserted into connectors.
- Pollution Degree 2
- Operational Temperature range -20 to 70°C (-4 to 158°F)
- Storage Temperature range -45 to 85°C (-49 to 185°F)
- Elevation 0-9,849 ft. (0-3000 m)
- Humidity 5-95% noncondensing
- UL file # E185559, UL Standard UL61010-1
- CNL evaluation to CAN/C22.2 No 1010.1.92
- CE mark
- EMC EN61326
- Emissions conducted and radiated as part of PXMP Meter System.
  - FCC Part 15 Class B
  - CISPR 11 Class B



**Figure 1. PXMP-DOM Digital Output Module Connections.**



**Figure 2. PXMP-DOM Individual Inputs are Isolated Per Channel.**

**Eaton**  
Electrical Sector  
1000 Eaton Boulevard.  
Cleveland, OH 44122  
United States  
877-ETN-CARE (877-386-2273)  
Eaton.com

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Printed in USA  
Publication No. TD150003EN / TBG001051  
July 2013