Back to Back Meter to Display Projection Mount Adapter Kit Assembly, PXM 6” Display (PX-PMBD)

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1. Introduction

The Power Xpert® Meter (PXM) Back to Back Meter to Display Projection Mount Adapter kit (PX-PMBD) is designed for mounting the PXM 6” display and the PXM 4/6/8K meter back to back while minimizing the rear clearance required behind the panel to mount and wire the meter.

Using this adapter kit, the PXM 6” display projects approximately two inches (50.8 mm) in front of the panel. The meter base is mounted using brackets that attach to studs on the display metal mounting adapter and to the mounting surface of the meter base. When assembled, the meter base requires approximately 8.5 inches (215.9 mm) of rear clearance behind the panel surface including a one inch (25.4 mm) bending radius for Cat 5e cable.

2. Installation

Refer to Figure 1 for assembly details on the Projection Mount Adapter kit.

The PXM 6” display and the PXM 4/6/8K meter are shown in Figure 1 for reference only. Mounting hardware required for assembly is included with the kit. The design of the Project Mount Adapter kit provides space between the panel surface and the meter base to route the PXM 6” display control power and communications cables.

Figure 1. Back to Back Meter to Display Projection Mount Adapter Kit Assembly Details.
**WARNING**

SWITCH THE MAIN POWER OFF AND WAIT FIVE (5) MINUTES BEFORE MAKING ANY CONNECTION OR DISCONNECTION ON THE DEVICE. DANGER OF EXPLOSION! EATON IS NOT LIABLE FOR THE MISAPPLICATION OR MISINSTALLATION OF ITS PRODUCTS.

**CAUTION**

BEFORE ATTEMPTING TO INSTALL THIS EQUIPMENT IN AN EXISTING OEM ENCLOSURE, MAKE SURE THE ENCLOSURE IS SECURELY MOUNTED AND THAT THE MOUNTING AND ALL EXISTING WIRING MEETS OR EXCEEDS ALL APPLICABLE CODES AND STANDARDS.

**Step 1.** Disconnect and lockout all power to the enclosure.

**Step 2.** Inspect the enclosure panels to determine the best mounting location for the Projection Mount Adapter kit, PXM 6” display, and the PXM 4/6/8K meter.

*Note:* The mounting location must provide minimum clearance of 8.5 inches (215.9 mm) of rear clearance behind the panel surface including a one inch (25.4 mm) bending radius for Cat 5e cable.

**Step 3.** Use the mounting template (see Figure 2) to mark the cutout area on the enclosure. Using an appropriate cutting tool, cut the marked area out of the panel.

**Step 4.** Use the drilling template (see Figure 2) to mark the mounting hole locations. Using a 0.177” drill bit, drill the four mounting holes.

**Step 5.** Use a file or other applicable tool to remove any metal burrs from the cutout area and drilled holes.

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**Figure 2.** Back to Back Meter to Display Projection Mount Adapter Kit Cutout / Drilling Information.

*Note:* 1:1 electronic cutout / drilling template available from Eaton upon request.
2.2 Projection Mount Adapter Kit Installation

**Step 1.** Install the gasket over the studs on the back of the PXM 6” display adapter bracket (see Figure 1).

**Step 2.** With the gasket in place, align the studs of the PXM 6” display adapter bracket with the mounting holes drilled in Section 2.1 - Step 4. Once aligned, push the display adapter bracket into the panel until flush with the outside of the panel.

**Step 3.** Working from the inside of the panel, align the holes in one of the PXM 4/6/8K meter mounting brackets with appropriate PXM 6” display adapter bracket mounting studs (see Figure 1). Secure the meter mounting bracket to the studs of the display adapter bracket using the (2) 0.164-32 (#8-32) nuts supplied.

**Step 4.** Follow the same procedure (from Step 3) to install the other PXM 4/6/8K meter mounting bracket.

**Step 5.** Refer to TD150015EN for mounting instructions for the PXM 6” display. Refer to IM02601004 for mounting instructions for the PXM 4/6/8K meter.

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