ProMix® PD2K
Modbus TCP Installation Kit

For use with the ProMix® PD2K to provide fieldbus communication abilities. For professional use only.

Important Safety Instructions
Read all warnings and instructions in this manual and in your system installation, operation, and repair manuals. Save these instructions.
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Related Manuals

Current manuals are available at www.graco.com.

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This manual provides instructions for installing a communication gateway module (CGM) in a ProMix® PD2K system.

- See the Modbus TCP Gateway Module manual 334183 for detailed information on the CGM for the Modbus TCP protocol.
- See the ProMix PD2K operation manual 332562 for setup details and available internal data.

![Diagram of Communication Gateway Module](image-url)
Installation

Mount the Bracket

1. Remove power from the system.
2. Use four screws (2) to mount the bracket (1) to the holes in the back of the electrical control box.

Mount the Module

1. Install the CGM on the mounting bracket in the electrical control box.
   a. Remove the access cover (C). Loosen two screws (D) and remove the CGM (A) from the base (B).
   b. Use four screws (7) to mount the base (B) to the bracket in the electrical control box.
   c. Install the grounding screw (5) and washer (6). Tighten so that the grounding screw attaches to the mounting bracket.
   d. Mount the CGM (A) on the base (B) with two screws (D).
   e. Examine the 16–position rotary switch in the base cavity that the access cover inserts into. Ensure that the rotary switch is set to position zero (0).
   
   NOTE: If additional CGMs are added, each additional CGM must be at a unique setting on its rotary switch.
   f. Install the access cover (C).
Installation

Connect the Cables

1. Install the module (see Mount the Module, page 5).
2. Locate the cable that is connected between the isolation board, connector J1, and the EFCM, J8.
3. Disconnect the cable from J1 of the isolation board.
4. Route the cable down to the CAN 1 connection and attach it to the CGM.
5. Connect the supplied CAN cable from CAN 2 on the CGM and to the isolation board, J1.

**NOTICE**

To avoid severe damage to the GCA modules, ensure that the CAN cable is connected to the appropriate CAN connection.

6. Connect the FieldBus cable to the CGM. Connect the other end of the cable to the AWI.

**NOTE:** Connect the CGM to the FieldBus according to FieldBus standards. The Modbus TCP interface operates at 100Mbit, full duplex. The interface is auto polarity sensing and auto-crossover capable.

7. Connect the ferrites (3) on both CAN cables and the FieldBus cable, adjacent to the CGM.

8. Attach the two tie strap mounts to the electrical control box at locations that will provide support for the two CAN cables routed to the CGM from the isolation board and the FSCM.

9. Use the two tie straps, inserted through the eyelets on the tie strap mounts and wrapped around the cables, to secure the cables. Trim off the excess portion of each tie strap.
### Kit 24T805

<table>
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<tr>
<th>Ref</th>
<th>Part</th>
<th>Description</th>
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<td>1</td>
<td>16V797</td>
<td>BRACKET</td>
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<tr>
<td>2</td>
<td>112144</td>
<td>SCREW, pan head, #8–32 x 0.25 in.</td>
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<td>3</td>
<td>121901</td>
<td>SUPPRESSOR, box snap, ferrite</td>
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<td>4</td>
<td>121227</td>
<td>CABLE, CAN, female/female, 0.6m</td>
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<td>5</td>
<td>123286</td>
<td>SCREW, machine, #6–32 x 1.5 in.</td>
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<td>6</td>
<td>100272</td>
<td>WASHER</td>
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<td>113964</td>
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<td>8</td>
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<td>MODULE, Communications Gateway, Modbus TCP (includes 8a – 8c)</td>
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<tr>
<td>8a</td>
<td>289697</td>
<td>Base</td>
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<td>8b</td>
<td>24R910</td>
<td>Module</td>
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<td>8c</td>
<td>277674</td>
<td>Cover</td>
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<td>102478</td>
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<td>117793</td>
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<td>11</td>
<td>16U706</td>
<td>Grommet (not shown)</td>
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Original Instructions. This manual contains English. MM 3A3180

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