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Pro-face Xycom GP4000

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Pro-face Xycom GP-4201TW GP4201TW

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Unit mm[in.]

	Attaching Installation Brackets on the Top and Bottom Surfaces of the GP Unit		Attaching Installation Brackets on the Sides of the GP Unit	
	X1	Y1	X2	Y2
PFXGP4301TADR	43 (±0.15) [1.69, (±0.01)]	69.5 (±0.15) [2.74, (±0.01)]	85.6 (±0.15) [3.37, (±0.01)]	43 (±0.15) [1.69, (±0.01)]
PFXGP4401TADR	43 (±0.15) [1.69, (±0.01)]	87.5 (±0.15) [3.45, (±0.01)]	109.8 (±0.15) [4.32, (±0.01)]	43 (±0.15) [1.69, (±0.01)]
PFXGP4501TADR	75.5 (±0.15) [2.97, (±0.01)]	108.55 (±0.15) [4.27, (±0.01)]	137.65 (±0.15) [5.42, (±0.01)]	75.5 (±0.15) [2.97, (±0.01)]
PFXGP4601TADR	75.5 (±0.15) [2.97, (±0.01)]	121.8 (±0.15) [4.80, (±0.01)]	158.8 (±0.15) [6.25, (±0.01)]	75.5 (±0.15) [2.97, (±0.01)]

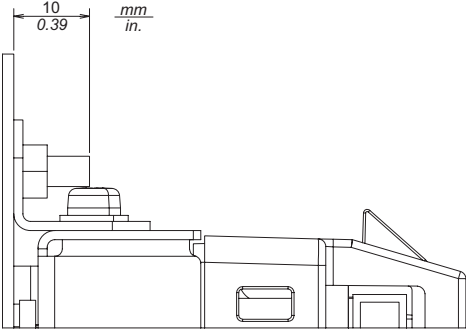
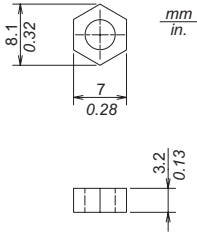
Note: Note that the panel cut dimensions have been calculated with the display area, not the panel cut (A or B), as the reference.

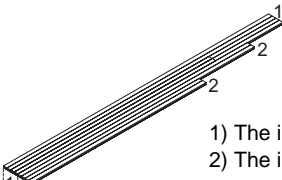
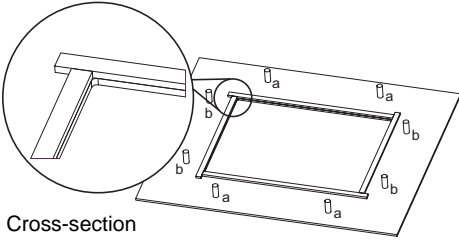
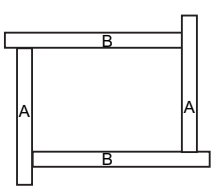
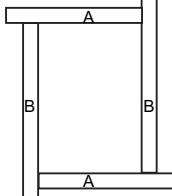
Panel Type***NOTICE*****PANEL UNSTEADY WHEN UNSECURED**

- Keep GP unit stabilized in the panel-cut while you are installing or removing the screw fasteners.

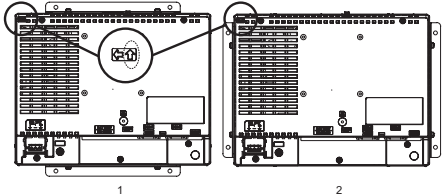
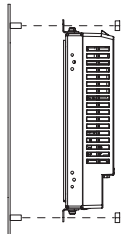
Failure to follow the instruction can result in equipment damage.

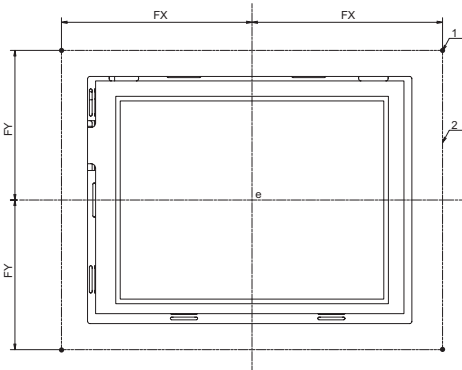
Installation procedure

Step	Procedure Details
1	<p>Cut an opening in the panel to match the standard mount or flat mount panel cut dimensions, and then weld four M4 x 10L stud bolts perpendicular to the rear surface of the panel in order to fix the GP unit in place.</p> <p>Note:</p> <ul style="list-style-type: none"> • Before you start this work, carefully read "3. Panel Cut Dimensions" (see page 223). • Prepare four stud bolts and four nuts within your quality assurance range. • The stud bolt height is 10 mm (0.39 in.).  <p>Installation diagram (profile)</p> <ul style="list-style-type: none"> • We recommend that you use M4 nuts (ISO4032, JIS B 1181). 

Step	Procedure Details																													
2	<p data-bbox="473 200 1210 278">Attach the installation gaskets to the panel. Installation gaskets are included for the standard mount orientation and for the flat mount orientation.</p>  <p data-bbox="679 401 1108 455">1) The installation gaskets for Flat mount 2) The installation gaskets for Standard mount</p> <p data-bbox="473 465 1210 595">Peel off the removable paper layer, and then attach the adhesive surface to the rear surface of the panel as shown in the figure. Follow the cross-section of the panel cut and attach the adhesive surface on top of the installation gasket so that the adhesive surface sticks out by approximately 3 mm (0.12 in.) past its adjacent adhesive surface.</p>  <p data-bbox="473 813 864 867">Cross-section of the panel Rear surface of the panel</p> <p data-bbox="473 877 1210 956">a) Stud bolts when attaching installation brackets at the top and bottom surfaces of the GP unit b) Stud bolts when attaching installation brackets on either side of the GP unit</p> <p data-bbox="473 962 532 981">Note:</p> <ul data-bbox="473 987 1210 1193" style="list-style-type: none"> ● Be sure to use the included installation gaskets. ● Due to the installation gasket properties, do not pull on the installation gaskets while you attach them. Doing so may cause the installation gaskets to be embedded in the installation brackets. ● If the installation gaskets are used for a long time, the gaskets may be damaged or dirt may affix to the gaskets, which may cause their effectiveness to decrease. Replace the installation gaskets periodically. ● The appropriate length of the installation gasket is as follows; <table border="1" data-bbox="473 1199 1210 1445"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Standard Mount</th> <th colspan="2">Flat Mount</th> </tr> <tr> <th>A</th> <th>B</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>PFXGP4301TADR</td> <td>97 [3.82]</td> <td>126 [4.96]</td> <td>116 [4.57]</td> <td>150 [5.91]</td> </tr> <tr> <td>PFXGP4401TADR</td> <td>125 [4.92]</td> <td>142 [5.59]</td> <td>142 [5.59]</td> <td>182 [7.17]</td> </tr> <tr> <td>PFXGP4501TADR</td> <td>169 [6.65]</td> <td>222 [8.74]</td> <td>195 [7.68]</td> <td>248 [9.76]</td> </tr> <tr> <td>PFXGP4601TADR</td> <td>195 [7.68]</td> <td>257 [10.12]</td> <td>222 [8.74]</td> <td>297 [11.69]</td> </tr> </tbody> </table> <p data-bbox="843 1199 1210 1251" style="text-align: right;">mm(in.) (dimensional tolerance:±1mm [0.04 in.])</p>  <p data-bbox="720 1680 747 1700">(1)</p>  <p data-bbox="960 1680 987 1700">(2)</p> <p data-bbox="473 1709 932 1765">(1) When the GP unit installing horizontally (2) When the GP unit installing vertically</p>		Standard Mount		Flat Mount		A	B	A	B	PFXGP4301TADR	97 [3.82]	126 [4.96]	116 [4.57]	150 [5.91]	PFXGP4401TADR	125 [4.92]	142 [5.59]	142 [5.59]	182 [7.17]	PFXGP4501TADR	169 [6.65]	222 [8.74]	195 [7.68]	248 [9.76]	PFXGP4601TADR	195 [7.68]	257 [10.12]	222 [8.74]	297 [11.69]
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Step	Procedure Details
3	<p>Slowly peel the protective sheet off of the GP unit's screen.</p> <p>Note: Peeling off the protective sheet with excessive force may peel off the film of the touch panel.</p>
4	<p>When the GP unit is shipped from the factory, installation brackets are fixed to its top surface and bottom surface. This corresponds to the standard mount orientation. If you are installing the GP unit in a panel with the GP unit in the same state as when it was shipped from the factory, read step 8.</p> <p>If you are switching the installation brackets to their positions on the sides of the GP unit or if you are installing the GP unit with the flat mount orientation, read steps 5 to 7.</p>
5	<p>[Switching the installation brackets to their positions on the sides of the GP unit or changing to the flat mount orientation]</p> <p>Orient the GP unit so that its screen faces down, and then place the GP unit on a clean and level surface.</p>
6	<p>Use a Phillips head screwdriver to remove the two installation screws fixing the one installation bracket in place on the top surface of the GP unit. In the same manner, remove the one installation bracket from the bottom surface.</p>
7	<p>Attach the installation brackets to the top and bottom surfaces of the GP unit or to the sides of the GP unit. In each case, attach the surface of the installation bracket that has six open holes to the GP unit. Note that the protruding parts and the fixation positions of installation screws vary between the standard mount (figure A) and flat mount (figure B) orientations. Use a Phillips head screwdriver to fix in place two installation screws per installation bracket. The tightening torque is 0.8 N•m (7.1 lb-in).</p> <div data-bbox="589 884 935 1159" data-label="Image"> <p>The diagram illustrates the installation process. At the top, a GP unit is shown with two brackets attached to its top and bottom surfaces. Below this, two brackets are shown in detail: Bracket A (Standard mount) and Bracket B (Flat mount). Bracket A has two screws in the inner holes, with a dimension line labeled '1' indicating the distance between them. Bracket B has two screws in the outer holes, with a dimension line labeled '2' indicating the distance between them. Arrows in the diagrams point to the protruding parts of the brackets.</p> </div> <p>A) Standard mount 1) Use two installation screws to fix the bracket in place. (Use the two inner holes.)</p> <p>B) Flat mount 2) Use two installation screws to fix the bracket in place. (Use the two outer holes.)</p> <p>Note: Check the positions of the protruding parts. Depending on the installation method, the positions of these parts may differ from the positions indicated by the arrows in the figure.</p>

Step	Procedure Details
8	<p data-bbox="473 202 1200 280">When you are installing the GP unit horizontally, hold the GP unit so that the arrow pointing in the horizontal direction on the rear surface of the GP unit points up as shown in the figure.</p> <div data-bbox="518 285 961 479"></div> <ol data-bbox="473 484 1200 589" style="list-style-type: none">1) Figure of the GP unit's rear surface when attaching installation brackets at the top and bottom surfaces of the GP unit2) Figure of the GP unit's rear surface when attaching installation brackets on either side of the GP unit
9	<p data-bbox="473 602 1200 705">Insert the GP unit through the rear surface of the panel, pass the stud bolts through the four installation bracket holes, and then tighten nuts on the stud bolts to fix the GP unit in place. The tightening torque is 0.8 N•m to 1.0 N•m (7.1 lb-in to 8.9 lb-in).</p> <div data-bbox="473 710 596 942"></div> <p data-bbox="600 929 864 956">Installation diagram (profile)</p>

Step	Procedure Details															
10	<p data-bbox="495 200 1233 253">When installing the GP unit with the flat mount orientation, affix the Overlay to the front of the GP unit.</p> <p data-bbox="495 285 1188 338">In advance, align the four corners of the Overlay outline on the panel as shown in the figure, and then mark these corners.</p> <p data-bbox="495 340 1229 392">Peel off the removable paper layer from the Overlay, align the Overlay with the four marks, and then affix the Overlay to the panel.</p>  <p data-bbox="495 774 845 799">1) Locations to mark (four locations)</p> <p data-bbox="495 801 683 826">2) Overlay outline</p> <p data-bbox="495 828 650 853">e) Display area</p> <p data-bbox="954 852 1030 877" style="text-align: right;">mm(in.)</p> <p data-bbox="628 879 1030 904" style="text-align: center;">(dimensional tolerance: $\pm 0.2\text{mm}$ [0.01 in.])</p> <table border="1" data-bbox="495 909 1026 1068"> <thead> <tr> <th></th> <th>FX</th> <th>FY</th> </tr> </thead> <tbody> <tr> <td>PFXGP4301TADR</td> <td>84.0 (3.31)</td> <td>66.0 (2.60)</td> </tr> <tr> <td>PFXGP4401TADR</td> <td>99.7 (3.93)</td> <td>78.6 (3.09)</td> </tr> <tr> <td>PFXGP4501TADR</td> <td>133.3 (5.25)</td> <td>105.5 (4.15)</td> </tr> <tr> <td>PFXGP4601TADR</td> <td>158.5 (6.24)</td> <td>118.7 (4.67)</td> </tr> </tbody> </table> <p data-bbox="495 1087 1223 1139">Note: Use the Overlay manufactured by Pro-face. Use one of the following models.</p> <ul data-bbox="495 1141 979 1242" style="list-style-type: none"> ● PFXZGPFSR6W1 (for the PFXGP4301TADR) ● PFXZGPFSR7W1 (for the PFXGP4401TADR) ● PFXZGPFSR10W1 (for the PFXGP4501TADR) ● PFXZGPFSR12W1 (for the PFXGP4601TADR) 		FX	FY	PFXGP4301TADR	84.0 (3.31)	66.0 (2.60)	PFXGP4401TADR	99.7 (3.93)	78.6 (3.09)	PFXGP4501TADR	133.3 (5.25)	105.5 (4.15)	PFXGP4601TADR	158.5 (6.24)	118.7 (4.67)
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NOTICE

BROKEN ENCLOSURE

- Attach correctly without a crevice between gaskets and between gasket and the panel.
- Do not attach installation fastener in a different position from mounting instruction.
- Do not exert more than 0.8 N•m (7.1 lb-in) of torque when tightening the installation screws.
- For use on a flat surface of a Type 1 Enclosure
- Attach the Overlay correctly with the installation.
- Do not reuse the Overlay removed once.

Failure to follow these instructions can result in equipment damage.

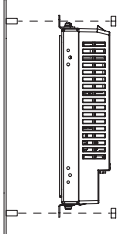
NOTICE

GASKET AGING

- Inspect the installation gasket periodically as required by your operating environment to keep the initial IP level.
- Change the installation gasket at least once a year, or as soon as scratches or dirt become visible.

Failure to follow these instructions can result in equipment damage.

Removal procedure

Step	Procedure Details
1	<p>Remove the nuts from the four stud bolts fixed in place on the rear surface of the panel, and then slowly remove the GP unit from the panel.</p>  <p style="text-align: right;">Removal diagram (profile)</p>

⚠ CAUTION

RISK OF INJURY

Be careful of the glass of the front of the GP unit.

- Wear gloves when you are installing the GP unit.
- Do not push the LCD panel strongly.
When installing the GP unit with the flat mount orientation, affix the Overlay to the front of the GP unit.

Do not drop the GP unit when you remove it from the panel.

- Hold the GP unit in place after removing the fasteners.
- Use both hands.

Failure to follow the instruction can result in injury or equipment damage.

Resin Boss Type

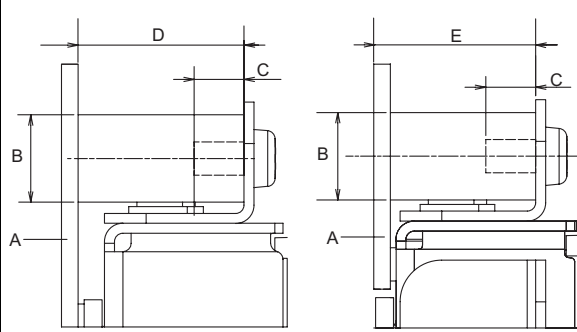
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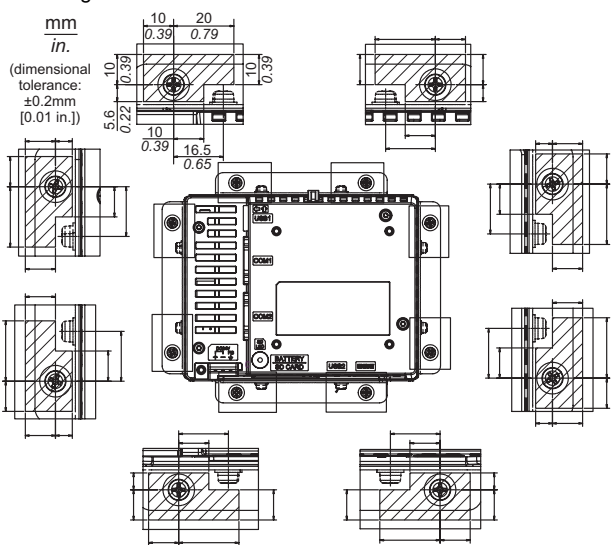
PANEL UNSTEADY WHEN UNSECURED

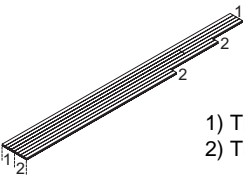
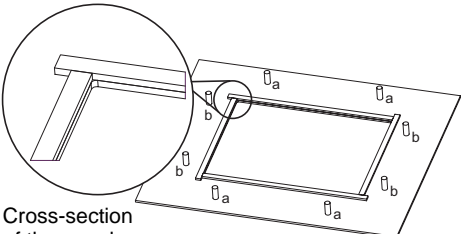
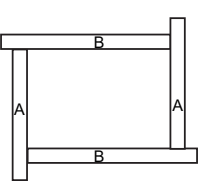
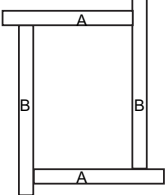
- Keep GP unit stabilized in the panel-cut while you are installing or removing the screw fasteners.

Failure to follow the instruction can result in equipment damage.

Installation procedure

Step	Procedure Details
1	<p>Follow the standard mount or flat mount panel cut dimensions to perform sufficient tests in advance with designs that meet the following conditions, confirm the safety of the system, and then mold the resin plate.</p>  <p>Standard mount Flat mount</p>

Step	Procedure Details
	<p>A) Resin plate B) Boss diameter: $\varnothing 10.5 \text{ mm} \pm 0.5 \text{ mm}$ ($\varnothing 0.41 \text{ in.} \pm 0.02 \text{ in.}$) C) Lower hole depth: 6 mm (0.24 in.) or more D) Boss height: 20 mm (0.79 in.) $\pm 0.1 \text{ mm}$ ($\pm 0 \text{ in.}$) for the standard mount orientation E) Boss height and resin plate thickness*1: 19.5 mm (0.77 in.) $\pm 0.1 \text{ mm}$ ($\pm 0 \text{ in.}$) for the flat mount orientation *1 Resin plate thickness: max. 2mm (0.08 in.)</p> <p>Note:</p> <ul style="list-style-type: none"> ● Before you start this work, carefully read "Panel Cut Dimensions" (see page 223). ● Design the resin plate on the basis of sufficient testing and within your quality assurance range. However, the boss height cannot be changed. ● Do not construct any ribs outside of the area indicated by diagonal lines in the figure.  <p>(This figure shows PFXGP4301TADR. The dimensions are common with all of the rear mount models.)</p>

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2	<p data-bbox="495 200 1232 278">Attach the installation gaskets to the panel. Installation gaskets are included for the standard mount orientation and for the flat mount orientation.</p>  <p data-bbox="696 394 1126 446">1) The installation gaskets for Flat mount 2) The installation gaskets for Standard mount</p> <p data-bbox="495 465 1232 595">Peel off the removable paper layer, and then attach the adhesive surface to the rear surface of the resin plate as shown in the figure. Follow the cross-section of the panel cut and attach the adhesive surface on top of the installation gasket so that the adhesive surface sticks out by approximately 3 mm (0.12 in.) past its adjacent adhesive surface.</p>  <p data-bbox="495 799 879 857">Cross-section of the panel Rear surface of the panel</p> <p data-bbox="495 871 1232 954">a) Boss when attaching installation brackets at the top and bottom surfaces of the GP unit b) Boss when attaching installation brackets on either side of the GP unit</p> <p data-bbox="495 981 554 1006">Note:</p> <ul data-bbox="495 1006 1232 1224" style="list-style-type: none"> • Be sure to use the included installation gaskets. • Due to the installation gasket properties, do not pull on the installation gaskets while you attach them. Doing so may cause the installation gaskets to be embedded in the installation brackets. • If the installation gaskets are used for a long time, the gaskets may be damaged or dirt may affix to the gaskets, which may cause their effectiveness to decrease. Replace the installation gaskets periodically. • The appropriate length of the installation gasket is as follows; <p data-bbox="861 1224 1236 1282" style="text-align: right;">mm(in.) (dimensional tolerance: ±1 mm [0.04 in.])</p> <table border="1" data-bbox="495 1282 1236 1476"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Standard Mount</th> <th colspan="2">Flat Mount</th> </tr> <tr> <th>A</th> <th>B</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>PFXGP4301TADR</td> <td>97 [3.82]</td> <td>126 [4.96]</td> <td>116 [4.57]</td> <td>150 [5.91]</td> </tr> <tr> <td>PFXGP4401TADR</td> <td>125 [4.92]</td> <td>142 [5.59]</td> <td>142 [5.59]</td> <td>182 [7.17]</td> </tr> <tr> <td>PFXGP4501TADR</td> <td>169 [6.65]</td> <td>222 [8.74]</td> <td>195 [7.68]</td> <td>248 [9.76]</td> </tr> <tr> <td>PFXGP4601TADR</td> <td>195 [7.68]</td> <td>257 [10.12]</td> <td>222 [8.74]</td> <td>297 [11.69]</td> </tr> </tbody> </table>  <p data-bbox="738 1702 765 1727">(1)</p>  <p data-bbox="961 1702 989 1727">(2)</p> <p data-bbox="495 1727 957 1787">(1) When the GP unit installing horizontally (2) When the GP unit installing vertically</p>		Standard Mount		Flat Mount		A	B	A	B	PFXGP4301TADR	97 [3.82]	126 [4.96]	116 [4.57]	150 [5.91]	PFXGP4401TADR	125 [4.92]	142 [5.59]	142 [5.59]	182 [7.17]	PFXGP4501TADR	169 [6.65]	222 [8.74]	195 [7.68]	248 [9.76]	PFXGP4601TADR	195 [7.68]	257 [10.12]	222 [8.74]	297 [11.69]
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