PDA2700
Steel NEMA 4 Enclosures for 1/8 DIN Digital Panel Meters

CAD

Download free 3-D CAD files of these enclosures to simplify your drawings!

predig.com/documentation-cad

PDA2704-1 Enclosure Shown with a PROVU Meter and MOD-LH Light / Horn and Reset Button.
Meter & MOD-LH Sold Separately. Assembly Required.

FEATURES

- **House up to 6 Meters**
- **16-Gauge Type 304 Steel**
- **14-Gauge Type 304 Steel**
- **1/8 DIN Cutout(s) Pre-Cut**
- **Horizontal, Vertical, or No Cutouts**
- **NEMA 4, 12 and 13**
- **Cover Secured with Screwed Latches**
- **Hinged Door**
- **Meter Mounted in Cover**
- **Sub-Panels Available**
- **Mounting Holes Integral to Enclosure**
- **PDA1024-01 24 VDC Power Supply Available**
- **UL Listed, CSA Certified**
- **Light / Horn & Reset Button**

OVERVIEW

The PDA2700 series of steel NEMA 4X enclosures for 1/8 DIN Digital Panel Meters provide a convenient way to mount up to six Precision Digital meters to walls and other vertical structures. Many of these enclosures also have room for additional devices like a light / horn and a 24 V transmitter power supply. These enclosures come pre-cut with horizontal or vertical 1/8 DIN cutouts or they can be ordered with no cutouts. The meters are mounted in the door of the enclosure thus allowing for programming and operation of the meter. No additional mounting hardware other than screws is needed. The door is hinged and secured with latches. Enclosures, meters and accessories are ordered and packaged separately.

PRECISION DIGITAL

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WALL MOUNTING

The PDA2700 enclosures include integral mounting flanges attached at the top and bottom of the enclosure that can be used to mount the enclosures to a wall.

Mounting flange
for wall mounting

COVER SECURING METHOD

The cover is secured in place with screwed latches.

ENCLOSURE SELECTION UTILITY

This utility simplifies the selection process of the right enclosure for your application based on the number and type of meters to be installed in the enclosure.

STEP 1. Select number of meters

Step 1:

How many meters do you need to house? - select - ‡

Finished assembly of these enclosures is done at the time of the order. As such, acknowledged orders are non-cancelable and the product is non-returnable.

STEP 2. Select cutout configuration

Step 2:

Please use the graphics below to select the cutout configuration for your 4 Precision Digital products
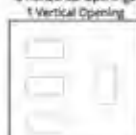
4 Horizontal Openings   4 Vertical Openings   3 Horizontal Openings
1 Vertical Opening

STEP 3. Select type of meters

Step 3:

Select which type of meter you will be installing into the enclosure.
You can view more details about a particular product by moving your mouse over the pictures below.

STEP 4. Choose from results

Enclosure Selection Utility Results

SKU	Description	Stock	Lead Time	Price	
PDA2504	PDA2700 Series NEMA 4X Plastic Enclosures Enclosure Cutouts: Four (4) Material: Plastic Meter Mounting: Through front panel Orientation: Horizontal Warranty: 1 year Approvals: UL/C-UL	3	5 business days	$269.00	ADD TO CART
PDA2504	PDA2500 Series Plastic NEMA 4X Enclosures Enclosure Cutouts: Four (4) DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Orientation: Horizontal Warranty: 1 year Approvals: UL/C-UL	1	18 business days	$349.00	ADD TO CART
PDA2604	PDA2600 Series Stainless Steel NEMA 4X Enclosures Enclosure Cutouts: Four (4) Material: Stainless Steel Meter Mounting: Through front panel	1	33 business days	$859.00	ADD TO CART

ENCLOSURE SELECTION UTILITY

Need help selecting the right enclosure?
www.predig.com/esu

MODELS AVAILABLE

Horizontal Cutouts

PDA2701

PDA2702

PDA2703

PDA2703-1

PDA2703-2

PDA2704

PDA2704-1

PDA2704-1C

PDA2704-2

PDA2704-2C

PDA2704-3

PDA2704-3C

PDA2705

PDA2706

ENCLOSURE SELECTION UTILITY

Need help selecting the right enclosure?
Go to www.predig.com/esu

MODELS AVAILABLE (CONTINUED)

Vertical Cutouts

PDA2701-V

PDA2702-V

PDA2703-V

PDA2704-V

PDA2705-V

PDA2706-V

PDA2722

No Cutouts

PDA2703-B

PDA2706-B

ENCLOSURE SELECTION UTILITY
280.1

Need help selecting the right enclosure?
Go to www.predig.com/esu

ACCESSORIES

PDP2504

PDP2503

Sub-Panels

The PDP2503 & PDP2504 sub-panels provide a convenient way to mount additional items to the base of the enclosure. They can be drilled to accept screws for easy mounting of relays, contactors, securing wiring clips, or installing other internal devices. See chart on the right for compatibility.

Sub-Panel Specifications

Size:
PDP2503: 8.75" × 6.88"
(222 mm × 175 mm)
PDP2504: 10.75" × 10.88"
(273 mm × 276 mm)
Thickness: 14 gauge
Material: Steel
Mounting hardware is included.

Model	PDP2503	PDP2504
Horizontal Cutouts		
PDA2701		
PDA2702		
PDA2703	•	
PDA2703-1	•	
PDA2703-2	•	
PDA2704		•
PDA2704-1		•
PDA2704-1C		•
PDA2704-2		•
PDA2704-2C		•
PDA2704-3		•
PDA2704-3C		•
PDA2705		•
PDA2706		•

Model	PDP2503	PDP2504
Vertical Cutouts		
PDA2701-V		
PDA2702-V		
PDA2703-V		•
PDA2704-V		•
PDA2705-V		•
PDA2706-V		•
PDA2722		
No Cutouts		
PDA2703-B	•	
PDA2706-B		•

PDA1024-01 24 VDC Power Supply for DIN Rail

The PDA1024-01 is a DIN rail mounted 24 VDC, 1.5 A power supply.

Specifications

Output Voltage: 21.6 ~ 26.4 VDC; ±10% 1.5A rated current.
Dimensions: 3.07" x 3.66" x 2.20" (78 mm x 93 mm x 56 mm) (W x H x D)

PDA-SSTAG Stainless Steel Tags

PDA-SSTAG is a laser etched stainless steel tag accessory for any of your Precision Digital meters. The tag features custom text for equipment identification, instruction, or whatever else is needed in your facility. Each tag comes with a stainless steel wire and lead seal for easy mounting wherever you need it.

PDX18DIN-FILLER 1/8 DIN Cutout Filler

The NEMA 4X 1/8 DIN cutout filler is used to cover up empty 1/8 DIN cutouts and maintain the NEMA 4X rating to the panel or enclosure. It consists of a generic bezel with a black faceplate, as well as mounting brackets, gasket, etc.

ACCESSORIES (CONTINUED)

PDA2700 Series Enclosure with Light / Horn

Light with 85 dB Horn

PROVU Process Meter

PDA2704-1 Enclosure

Reset Button
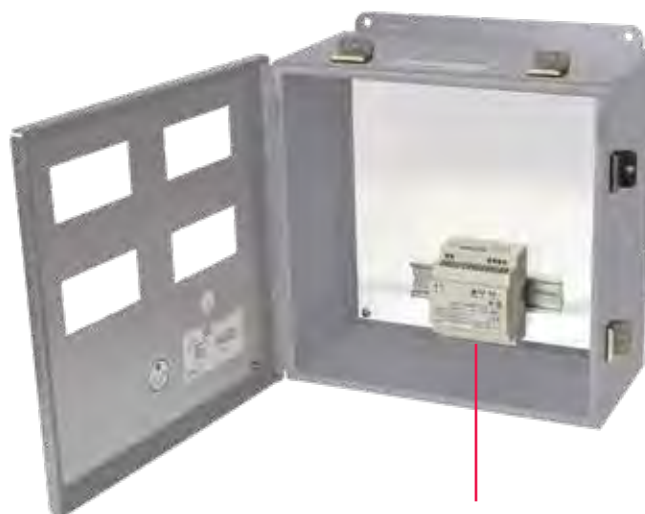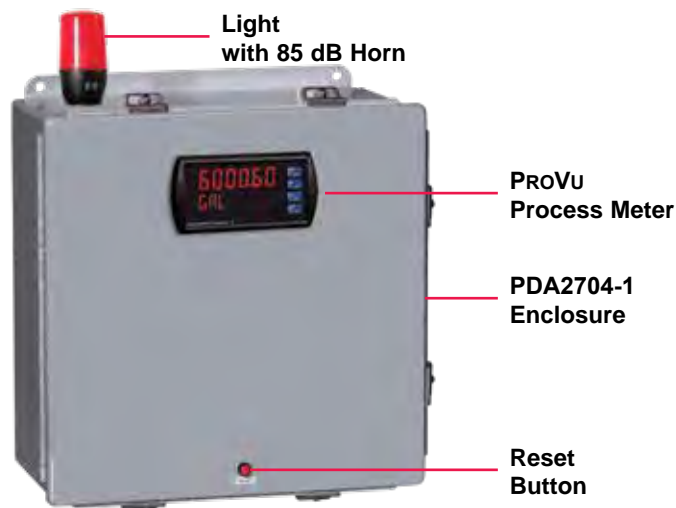
PDA1024-01 Mounted on PDP2504 Sub-Panel

Light / Horn Accessories

Precision Digital offers a Light / Horn that can be mounted to any PDA2700 Series enclosures by the user. This Light / Horn can be wired to flash or stay steady on and the horn is rated at 85 dB. The light and horn can be controlled independently of each other via separate relays on the meter such that the horn can be programmed to silence via a button mounted to the enclosure and the light can be programmed to stay on until the alarm clears.

The light / horn and reset button are all rated NEMA 4X or IP65. The following table illustrates a typical way the Light / Horn accessory can be wired and programmed for the PROVU meter:

Relay #	Connected to	Typical reset method (user selectable)
1	Flashing Light[1]	Auto reset
2	Horn	Silence with Reset Button at any time
3	User Device	As user desires
4	User Device	As user desires

1. Light can be wired to flash or stay steady on

Note: The Light / Horn accessory is powered from the 200 mA transmitter power supply, so when this is installed, the meter's transmitter power is downgraded from 200 mA. See Transmitter Power Supply specification on MOD-LH manual for details.

MOD-LH Light / Horn Accessory

When this MOD is ordered, the enclosure comes pre-drilled with holes for Light / Horn and Reset Button to be installed by user. Meter and enclosure are sold separately. The Light / Horn hole is in the back left corner of the enclosure and the Reset button is centered on the front of the enclosure about an inch off the bottom of the door. If the user would prefer to mount these items in different locations, order the PDA-LH and the PDA-BUTTON1R separately and drill holes and mount as desired. Other light colors are available.

Light / Horn Dimensions

Units: Inches (mm)

Ø 2.2 (55)

2.6 (65)

4.8 (122)

0.8 (20)

M22 x 1.5
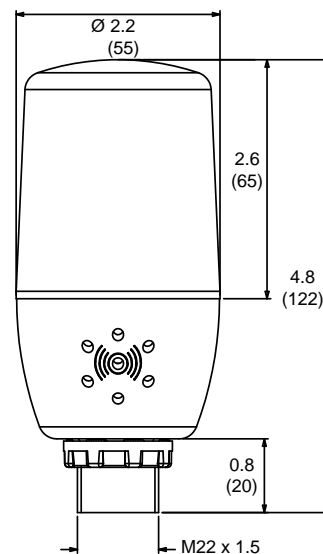
SPECIFICATIONS

General

Material: PDA2701: 16-gauge steel;
PDA2702-2706: 14-gauge steel
Color: Gray
Meters: Houses up to 6 meters
Meter Mounting Method: Through cover
Cover Mounting Method: Hinge / latch
Ratings: NEMA 4, 12 and 13
Approvals: UL, CSA
Warranty: 1 year

1/8 DIN Meter Types

Type	Meters
B	PD542, PD543, and PD562
C	PD603, PD644, PD743, PD765, PD6602, PD6603, PD6604, PD6606, PD6607, PD6608, PD6622, PD6624, and PD6626, and PD6628.
D	PD138, PD154, and PD158
E	PD6000, PD6001, PD6060, PD6080, PD6081, PD6088, PD6089, PD6100, PD6200, PD6210, PD6262, PD6300, PD6310, PD6310-WM, PD6363, PD6400, and PD7000

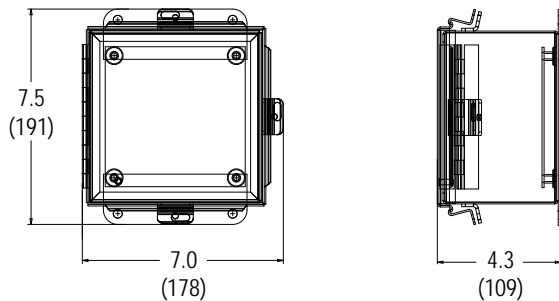### Dimensions / Features

• Available   ◙ 1 Required

Model	# of Meters	1/8 DIN Meter Type B	C	D	E	Outside Dimensions (H x W x D) Inch (mm)	Inside Dimensions (H x W x D) Inch (mm)	Mounting Dimensions Inch (mm)	Conduit Hole	Fits PDA1024-01	Fits MOD-LH	Weight lb (kg)
Horizontal Cutouts												
PDA2701	1		•			7.5 x 7.0 x 4.3 (191 x 178 x 109)	N/A	6.75 x 4.0 171 x 102)			•	3.8 (1.7)
PDA2702	2		•			9.5 x 7.0 x 3.8 (241 x 178 x 97)	N/A	8.75 x 4.0 (222 x 102)			•	5.1 (2.3)
PDA2703	3		•			11.5 x 9.0 x 4.3 (292 x 229 x 102)	N/A	10.75 x 6.0 273 x 152)			•	7.9 (3.6)
PDA2703-1	1											
PDA2703-2	2											
PDA2704	4					13.5 x 13.0 x 6.3 (343 x 330 x 160)	N/A	12.75 x 10.0 (324 x 254)	•		•	13.9 (6.3)
PDA2704-1	1											
PDA2704-1C	1											
PDA2704-2	2											
PDA2704-2C	2	•	•		•							
PDA2704-3	3											
PDA2704-3C	3											
PDA2705	5											
PDA2706	6											
Vertical Cutouts												
PDA2701-V	1			•		7.5 x 7.0 x 4.3 (191 x 178 x 109)	N/A	6.75 x 4.0 (171 x 102)			•	3.8 (1.7)
PDA2702-V	2			•		9.5 x 7.0 x 3.8 (241 x 178 x 97)	N/A	8.75 x 4.0 (222 x 102)			•	5.1 (2.3)
PDA2722	2	•	•	◙	•							
PDA2703-V	3					13.5 x 13.0 x 6.3 (343 x 330 x 160)	N/A	12.75 x 10.0 (324 x 254)		•	•	13.9 (6.3)
PDA2704-V	4				•							
PDA2705-V	5											
PDA2706-V	6											
No Cutouts												
PDA2703-B	N/A					11.5 x 9.0 x 4.3 (292 x 229 x 102)	N/A	10.75 x 6.0 273 x 152)			•	7.9 (3.6)
PDA2706-B	N/A					13.5 x 13.0 x 6.3 (343 x 330 x 160)	N/A	12.75 x 10.0 (324 x 254)		•	•	13.9 (6.3)

DIMENSIONS

Units: Inches (mm)

Extra Small Enclosures

7.5 (191)

7.0 (178)

4.3 (109)

Dimensions for: PDA2701, PDA2701-V.

Small Enclosures

9.5 (241)

7.0 (178)

3.8 (97)
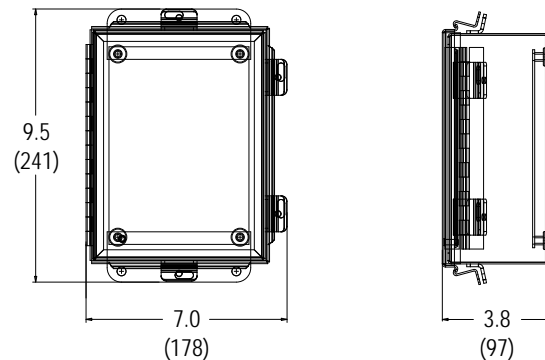
Dimensions for: PDA2702, PDA2702-V, PDA2722.

Medium Enclosures

11.5 (292)

9.0 (229)

4.3 (102)
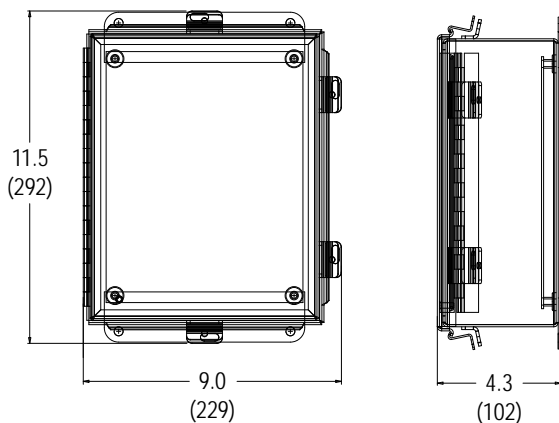
Dimensions for: PDA2703, PDA2703-1, PDA2703-2, PDA2703-B.

Large Enclosures

13.5 (343)

13.0 (330)

6.3 (160)
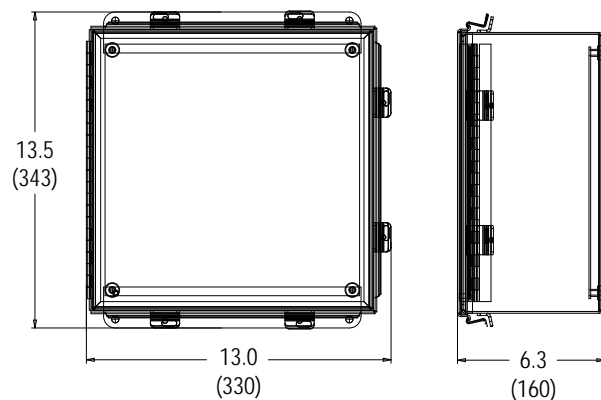
Dimensions for: PDA2703-V, PDA2704, PDA2704-1, PDA2704-1C, PDA2704-2, PDA2704-2C, PDA2704-3, PDA2704-3C, PDA2704-V, PDA2705, PDA2705-V, PDA2706, PDA2706-B, PDA2706-V.

CAD
ENCLOSURE
DIMENSIONAL DRAWINGS

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predig.com/documentation-cad

ORDERING INFORMATION

Horizontal Cutouts

Model	# of Meters	⅛ DIN Meter Type			
		B	C	D	E
PDA2701	1		•		
PDA2702	2		•		
PDA2703	3		•		
PDA2703-1	1		•		
PDA2703-2	2		•		
PDA2704	4	•	•		•
PDA2704-1	1	•	•		•
PDA2704-1C	1	•	•		•
PDA2704-2	2	•	•		•
PDA2704-2C	2	•	•		•
PDA2704-3	3	•	•		•
PDA2704-3C	3	•	•		•
PDA2705	5	•	•		•
PDA2706	6	•	•		•

• Available   ◉ 1 Required

Vertical Cutouts

Model	# of Meters	⅛ DIN Meter Type			
		B	C	D	E
PDA2701-V	1			•	
PDA2702-V	2			•	
PDA2703-V	3			•	
PDA2704-V	4			•	
PDA2705-V	5			•	
PDA2706-V	6			•	
PDA2722	1	•	•	◉	•

• Available   ◉ 1 Required

1/8 DIN Meter Types

Type	Meters
B	PD542, PD543, and PD562
C	PD603, PD644, PD743, PD765, PD6602, PD6603, PD6604, PD6606, PD6607, PD6608, PD6622, PD6624, and PD6626, and PD6628.
D	PD138, PD154, and PD158
E	PD6000, PD6001, PD6060, PD6080, PD6081, PD6088, PD6089, PD6100, PD6200, PD6210, PD6262, PD6300, PD6310, PD6310-WM, PD6363, PD6400, and PD7000

⚠ **WARNING**
Cancer and Reproductive Harm - **www.P65Warnings.ca.gov**

No Cutouts

Model	Description
PDA2703-B	Enclosure with no Cutouts
PDA2706-B	Enclosure with no Cutouts

Sub-Panels

Model	Description
PDP2503	For PDA2703
PDP2504	For PDA2704 - PDA2706

Accessories

Model	Description
MOD-LHRB1	Red[3] Light / Horn + Reset Button with Holes Drilled[1]
PDA-BUTTON1R	Reset Button[2]
PDA-LHR	Red[3] Light / Horn
PDA1002	6" DIN Rail Mounting Kit
PDA1024-01	24 VDC Power Supply for DIN Rail
PDA-SSTAG	Stainless Steel Tag
PDX18DIN-FILLER	1/8 DIN Cutout Filler

1. When this MOD is ordered, the enclosure comes pre-drilled with holes for Light / Horn and Reset Button to be installed by user. Meter and enclosure are sold separately. The Light / Horn hole is in the back left corner of the enclosure and the Reset button is centered on the front of the enclosure about an inch off the bottom of the door. If the user would prefer to mount these items in different locations, order the PDA-LHR and the PDA-BUTTON1R separately and drill holes and mount as desired.

2. The Reset Button works only with meters that have digital input contacts like the F4 terminals on the ProVu. There are no such terminals on a Trident meter so the front panel ACK button on the Trident would have to be used for reset purposes.

3. For other light color options see the MOD-LH Series manual (LIMMODLH).

Your Local Distributor is:

Disclaimer

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Find Quality Products Online at: **www.GlobalTestSupply.com**   sales@GlobalTestSupply.com