PDA2500

Rugged Plastic NEMA 4X Enclosures for 1/8 DIN Digital Panel Meters

Download free 2-D CAD files of these enclosures to simplify your drawings!

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PDA2504-1 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 10 Meters**
- **Plastic**
- **Horizontal, Vertical or No Cutouts**
- **1/16 DIN, 1/8 DIN and 1/4 DIN Cutouts**
- **NEMA 1, 3, 3S, 4, 4X, and 12**
- **Hinged Door**
- **Cover Held in Place with Screws**
- **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 PDA2500 series of rugged plastic NEMA 4X enclosures for 1/8 DIN Digital Panel Meters provide a convenient way to mount up to ten 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. Sub-panels are available to mount additional devices to the base of the enclosure. These enclosures come pre-cut with horizontal or vertical 1/16 DIN, 1/8 DIN and 1/4 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. Mounting hardware is provided. The door is hinged and secured with screws. Enclosures, meters and accessories are ordered and packaged separately.

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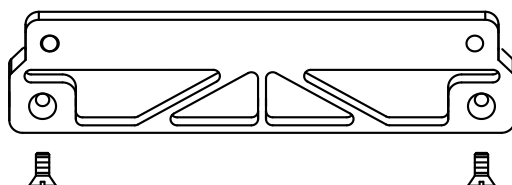1.888.610.7664   www.calcert.com   sales@calcert.com

WALL MOUNTING

The PDA2500 enclosures come with two mounting flanges that can be attached to the top and bottom of the enclosure using two screws. These allow for easy and convenient wall mounting.

**Mounting flange holes
for wall mounting**

Mounting flange

COVER SECURING METHOD

The cover is hinged and secured with screws.

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
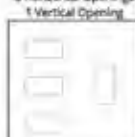
| 4 Horizontal Openings | 4 Vertical Openings | 3 Horizontal Openings 1 Vertical Opening |

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

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

MODELS AVAILABLE

Horizontal Cutouts

PDA2501

PDA2501-4

PDA2501-16

PDA2502

PDA2503

PDA2503-1

PDA2503-2

PDA2504

PDA2504-1

PDA2504-2

PDA2504-3

PDA2505

PDA2506

PDA2507

PDA2508

PDA2509

PDA2510

PDA2512

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

MODELS AVAILABLE (CONTINUED)

Vertical Cutouts

PDA2501-V

PDA2502-V

PDA2503-V

PDA2504-V

PDA2505-V

PDA2506-V

PDA2522

No Cutouts

PDA2503-B

PDA2506-B

PDA2508-B

PDA2510-B

ENCLOSURE SELECTION UTILITY

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

ACCESSORIES

PDP2510
PDP2508
PDP2504
PDP2503

Sub-Panels

The PDP2503, PDP2504, PDP2508 and PDP2510 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)
PDP2508: 12.75" × 10.88"
(324 mm × 276 mm)
PDP2510: 14.75" × 12.88"
(375 mm × 327 mm)
Thickness: 14 gauge
Material: Steel
Mounting hardware is included.

Model	PDP2503	PDP2504	PDP2508	PDP2510
Horizontal Cutouts				
PDA2501				
PDA2501-4				
PDA2501-16				
PDA2502				
PDA2503	•			
PDA2503-1	•			
PDA2503-2	•			
PDA2504		•		
PDA2504-1		•		
PDA2504-2		•		
PDA2504-3		•		
PDA2505		•		
PDA2506		•		
PDA2507			•	
PDA2508			•	
PDA2509				•
PDA2510				•
PDA2512		•		

Model	PDP2503	PDP2504	PDP2508	PDP2510
Vertical Cutouts				
PDA2301-V				
PDA2302-V	•			
PDA2303-V		•		
PDA2304-V		•		
PDA2305-V		•		
PDA2306-V		•		
PDA2322	•			
No Cutouts				
PDA2503-B	•			
PDA2506-B		•		
PDA2508-B			•	
PDA2510-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.
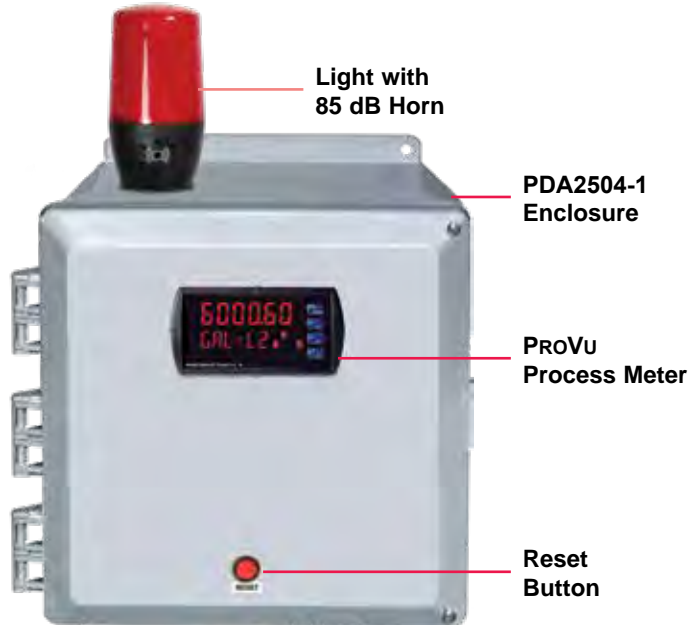

PDX18DIN-FILLER 1/8 DIN Cutout Filler

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)

PDA2500 Series Enclosure with Light / Horn

Light with 85 dB Horn

PDA2504-1 Enclosure

PROVU Process Meter

Reset Button

PDA1024-01 Mounted on PDP2504 Sub-Panel

Light / Horn Accessories

Precision Digital offers a Light / Horn that can be mounted to any PDA2500 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
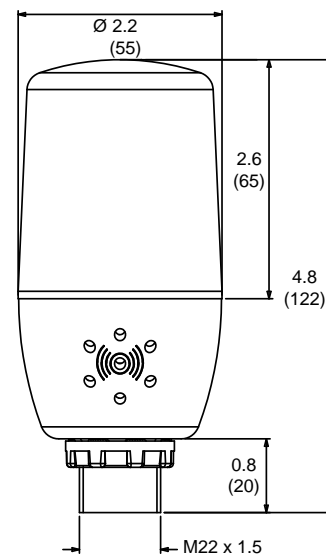
SPECIFICATIONS

General

Material: Thermoplastic
Color: Gray
Meters: Houses up to 10 meters
Meter Mounting Method: Through cover
Cover Mounting Method: Hinge / screw
Ratings: NEMA 1, 3, 3S, 4, 4X, and 12
Approvals: UL, CSA
Operating Temperature: -40 to 120°C
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	DIN 1/4	1/16	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														
PDA2501	1	•	•					7.7 x 6.4 x 5.1 (196 x 163 x 130)	4.9 x 4.9 x 4.5 (124 x 124 x 114)	6.75 x 4.0 (171 x 102)		•	•	1.6 (0.7)
PDA2501-4	1					•								
PDA2501-16	1						•							
PDA2502	2	•	•					9.7 x 6.4 x 5.1 (246 x 163 x 130)	6.7 x 4.9 x 4.5 (170 x 124 x 114)	8.75 x 4.0 (222 x 102)		•	•	2.2 (1.0)
PDA2503	3	•	•					11.7 x 8.4 x 5.1 (297 x 213 x 130)	8.7 x 6.9 x 4.5 (221 x 175 x 114)	10.75 x 6.0 (273 x 152)		•	•	3.0 (1.4)
PDA2503-1	1													
PDA2503-2	2													
PDA2504	4	•	•		•			13.7 x 12.4 x 7.1 (348 x 315 x 181)	10.7 x 10.9 x 6.5 (272 x 277 x 165)	12.75 x 10.0 (324 x 254)		•	•	5.0 (2.3)
PDA2504-1	1													
PDA2504-2	2													
PDA2504-3	3													
PDA2505	5													
PDA2506	6													
PDA2512	2													
PDA2507	7	•	•		•			15.7 x 12.4 x 7.1 (399 x 315 x 181)	12.7 x 10.9 x 6.5 (323 x 277 x 165)	14.75 x 10.0 (375 x 254)		•	•	5.5 (2.5)
PDA2508	8													
PDA2509	9	•	•		•			17.7 x 14.4 x 7.1 (450 x 366 x 180)	14.7 x 10.9 x 6.5 (373 x 277 x 165)	16.75 x 12.0 (425 x 305)		•	•	7.3 (3.3)
PDA2510	10													
Vertical Cutouts														
PDA2501-V	1			•				7.7 x 6.4 x 5.1 (196 x 163 x 130)	4.9 x 4.9 x 4.5 (124 x 124 x 114)	4.0 x 6.75 (102 x 171)		•	•	1.6 (0.7)
PDA2502-V	2			•				11.7 x 8.4 x 5.1 (297 x 213 x 130)	8.7 x 6.9 x 4.5 (221 x 175 x 114)	6.0 x 10.75 (152 x 273)		•	•	3.0 (1.4)
PDA2522	2	•	•	◉	•									
PDA2503-V	3			•				13.7 x 12.4 x 7.1 (348 x 315 x 181)	10.7 x 10.9 x 6.5 (272 x 277 x 165)	10.0 x 12.75 (254 x 324)		•	•	5.0 (2.3)
PDA2504-V	4													
PDA2505-V	5													
PDA2506-V	6													

SPECIFICATIONS (CONTINUED)

Dimensions / Features

Model	# of Meters	Meter Type				DIN		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)
		B	C	D	E	1/4	1/16							
No Cutouts														
PDA2503-B	N/A							11.7 x 8.4 x 5.1 (297 x 213 x 130)	8.7 x 6.9 x 4.5 (221 x 175 x 114)	10.75 x 6.0 (273 x 152)		•	•	3.0 (1.4)
PDA2506-B	N/A							13.7 x 12.4 x 7.1 (348 x 315 x 181)	10.7 x 10.9 x 6.5 (272 x 277 x 165)	12.75 x 10.0 (324 x 254)		•	•	5.0 (2.3)
PDA2508-B	N/A							15.7 x 12.4 x 7.1 (399 x 315 x 181)	12.7 x 10.9 x 6.5 (323 x 277 x 165)	12.75 x 10.0 (324 x 254)		•	•	5.5 (2.5)
PDA2510-B	N/A							17.7 x 14.4 x 7.1 (450 x 366 x 180)	14.7 x 10.9 x 6.5 (373 x 277 x 165)	16.75 x 12.0 (425 x 305)		•	•	7.3 (3.3)

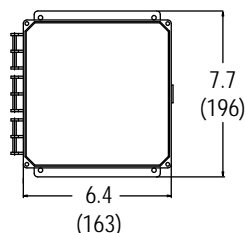**CAD** Download free 2-D CAD files of these enclosures to simplify your drawings!
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DIMENSIONS

Units: Inches (mm)

Extra Small Enclosures

7.7 (196)

6.4 (163)

Dimensions for: PDA2501, PDA2501-V, PDA2501-4, PDA2501-16.

Small Enclosure

9.7 (246)

6.4 (163)
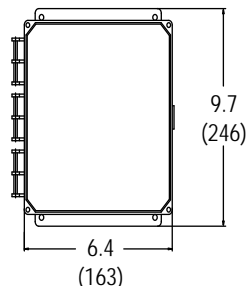
Dimensions for: PDA2502.

Medium Enclosures

11.7 (297)

8.4 (213)
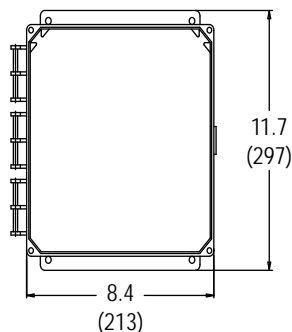
Dimensions for: PDA2502-V, PDA 2522, PDA2503, PDA2503-B, PDA2503-1, PDA2503-2.

Large Enclosures
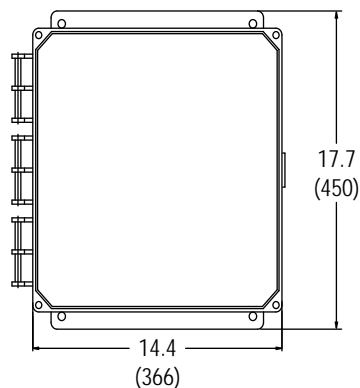

13.7 (348)

12.4 (315)
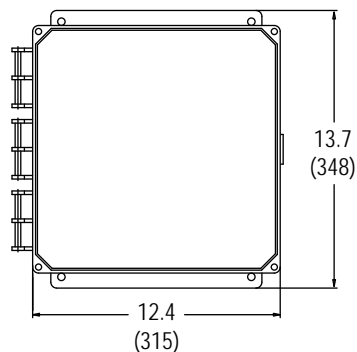
Dimensions for: PDA2504, PDA2504-V, PDA2504-1, PDA2504-2, PDA2504-3, PDA2505, PDA2505-V, PDA2506, PDA2506-B, PDA2506-V, PDA2512.

Extra Large Enclosures

15.7 (399)

12.4 (315)
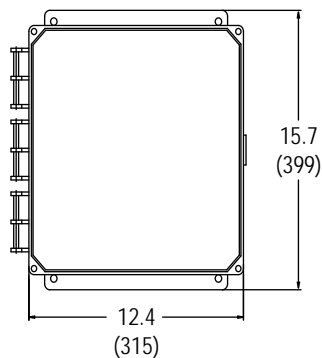
Dimensions for: PDA2507, PDA2508, PDA2508-B.

Jumbo Enclosures

17.7 (450)

14.4 (366)

Dimensions for: PDA2509, PDA2510, PDA2510-B.

CAD

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

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ORDERING INFORMATION

Horizontal Cutouts

Model	# of Meters	1/8 DIN Meter Type				DIN	
		B	C	D	E	1/4	1/16
PDA2501	1	•	•				
PDA2501-4	1					•	
PDA2501-16	1						•
PDA2502	2	•	•				
PDA2503	3	•	•				
PDA2503-1	1	•	•				
PDA2503-2	2	•	•				
PDA2504	4	•	•		•		
PDA2504-1	1	•	•		•		
PDA2504-2	2	•	•		•		
PDA2504-3	3	•	•		•		
PDA2505	5	•	•		•		
PDA2506	6	•	•		•		
PDA2507	7	•	•		•		
PDA2508	8	•	•		•		
PDA2509	9	•	•		•		
PDA2510	10	•	•		•		
PDA2512	2	•	•		•		

Vertical Cutouts

Model	# of Meters	1/8 DIN Meter Type				DIN	
		B	C	D	E	1/4	1/16
PDA2501-V	1			•			
PDA2502-V	2			•			
PDA2503-V	3			•			
PDA2504-V	4			•			
PDA2505-V	5			•			
PDA2506-V	6			•			
PDA2522	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
PDA2503-B	Enclosure with no Cutouts
PDA2506-B	Enclosure with no Cutouts
PDA2508-B	Enclosure with no Cutouts
PDA2510-B	Enclosure with no Cutouts

Sub-Panels

Model	Description
PDP2503	For PDA2503
PDP2504	For PDA2504 - PDA2506, & PDA2512
PDP2508	For PDA2507 & PDA2508
PDP2510	For PDA2509 & PDA2510

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:

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LDS2500_H   03/19

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