PDA2300
Economical Plastic NEMA 4X Enclosures for 1/8 DIN Digital Panel Meters

CAD
ENCLOSURE DIMENSIONAL DRAWINGS

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

predig.com/documentation-cad

PDA2301 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**
- **1/8 DIN Cutout(s) Pre-Cut**
- **NEMA 4X**
- **Hinged Door**
- **Stainless Steel Cover Latches**
- **Meter Mounted in Cover**
- **Sub-Panels Available**
- **Mounting Hardware Provided**
- **PDA1024-01 24 VDC Power Supply Available**
- **UL Listed**
- **Light / Horn & Reset Button**

OVERVIEW

The PDA2300 series of economical plastic NEMA 4X enclosures for 1/8 DIN Digital Panel Meters provides 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 1/8 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. Mounting hardware is provided. The door is hinged and secured with stainless steel latches. Enclosures, meters and accessories are ordered and packaged separately.

PRECISION DIGITAL CORPORATION

PRECISION DIGITAL

WALL MOUNTING

The PDA2300 enclosures include four mounting flanges and four screws for your convenience. Using the included screws and a phillips head screwdriver simply assemble each flange in the four threaded screw holes on the back of the enclosure as shown in the example below. Now the enclosure is ready to be easily mounted to a wall.
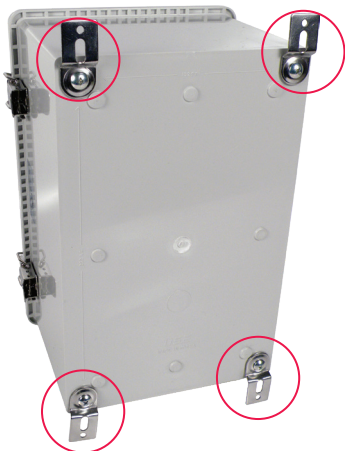
The PDA2301 series enclosures with supplied mounting flanges installed

The PDA2300 series enclosures is supplied with 4 screws and 4 mounting flanges

COVER SECURING METHOD

The cover is secured using stainless steel clasps.

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.
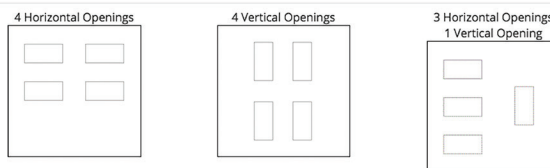
STEP 1. Select number of meters

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	
PDA2304	PDA2300 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	3 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	13 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

PDA2301

PDA2302

PDA2303

PDA2304

PDA2304-1

PDA2304-2

PDA2304-3

PDA2305

PDA2306

PDA2307

PDA2308

PDA2309

PDA2310

PDA2312

ENCLOSURE SELECTION UTILITY

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

MODELS AVAILABLE (CONTINUED)

Vertical Cutouts

PDA2301-V

PDA2302-V

PDA2303-V

PDA2304-V

PDA2305-V

PDA2306-V

PDA2322

No Cutouts

PDA2303-B

PDA2308-B

PDA2310-B

ENCLOSURE SELECTION UTILITY

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

ACCESSORIES
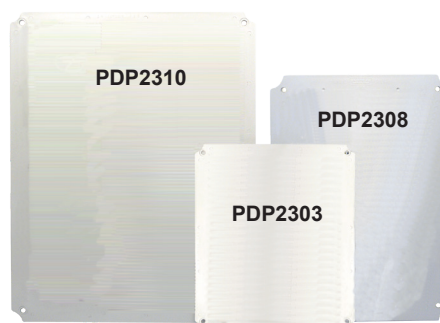
Sub-Panels

The PDP2303, PDP2308, PDP2310 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:
PDP2303: 7.87" × 11.81"
(200 mm × 300 mm)
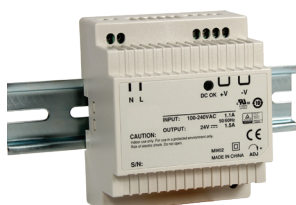PDP2308: 11.81" × 15.75"
(300 mm × 400 mm)
PDP2310: 15.75" × 19.69"
400 mm × 500 mm)
Material: ABS Plastic
Mounting hardware is included.

Model	PDP2303	PDP2308	PDP2310
Horizontal Cutouts			
PDA2301	•		
PDA2302	•		
PDA2303	•		
PDA2304		•	
PDA2304-1		•	
PDA2304-2		•	
PDA2304-3		•	
PDA2305		•	
PDA2306		•	
PDA2307		•	
PDA2308		•	
PDA2309			•
PDA2310			•
PDA2312		•	

Model	PDP2303	PDP2308	PDP2310
Vertical Cutouts			
PDA2301-V	•		
PDA2302-V	•		
PDA2303-V		•	
PDA2304-V		•	
PDA2305-V		•	
PDA2306-V		•	
PDA2322	•		
No Cutouts			
PDA2303-B	•		
PDA2308-B		•	
PDA2310-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.
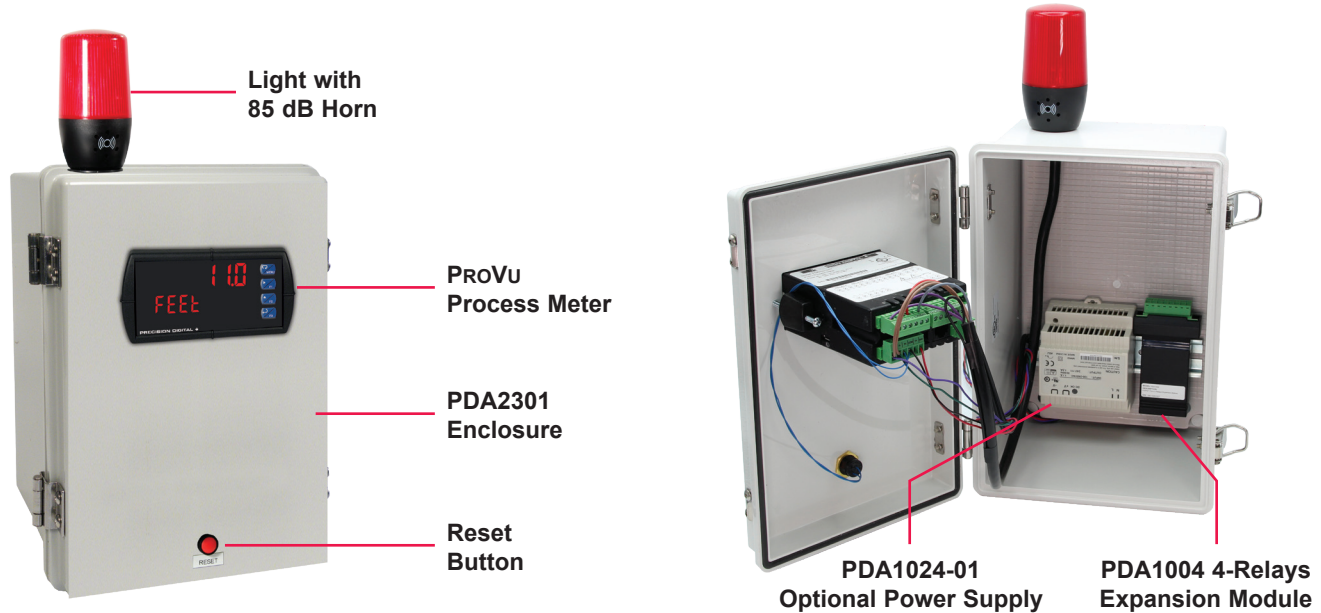
PDX18DIN-FILLER 1/8 DIN Cutout Filler

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)

PDA2300 Series Enclosure with Light / Horn

Light with 85 dB Horn

PROVU Process Meter

PDA2301 Enclosure

Reset Button

PDA1024-01 Optional Power Supply

PDA1004 4-Relays Expansion Module

Light / Horn Accessories

Precision Digital offers a Light / Horn that can be mounted to any PDA2300 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
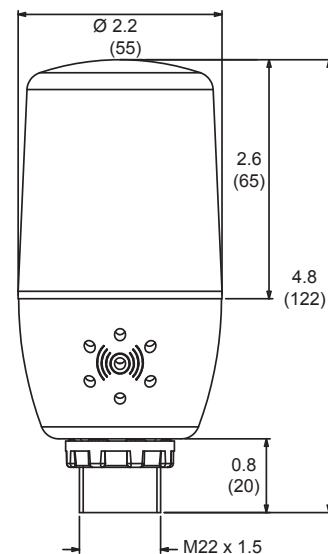
SPECIFICATIONS

General
Material: Thermoplastic Polyester
Color: Gray
Meters: Houses up to 10 meters
Meter Mounting Method: Through cover
Cover Mounting Method: Hinge / Hasp
Ratings: NEMA 4X
Approvals: UL, C-UL
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

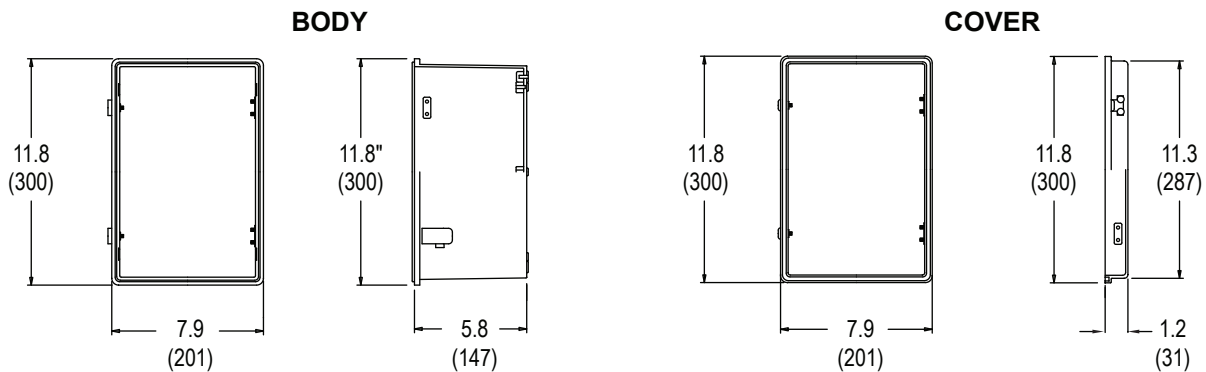### Dimensions / Features

• Available   ◉ 1 Required

Model	# of Meters	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												
PDA2301	1					11.8 x 7.9 x 7.0 (300 x 201 x 178)	11.0 x 7.0 x 6.9 (281 x 180 x 176)	9.96 x 7.72 (253 x 196)		•	•	3.15 (1.43)
PDA2302	2	•	•		•							
PDA2303	3											
PDA2304	4					15.75 x 11.8 x 7.0 (400 x 300 x 178)	15.0 x 11.0 x 6.9 (382 x 281 x 176)	13.90 x 11.65 (353 x 296)		•	•	5.50 (2.49)
PDA2304-1	1											
PDA2304-2	2											
PDA2304-3	3											
PDA2305	5	•	•		•							
PDA2306	6											
PDA2307	7											
PDA2308	8											
PDA2312	2											
PDA2309	9	•	•		•	19.7 x 15.75 x 7.9 (500 x 400 x 201)	18.9 x 15.0 x 7.7 (480 x 381 x 196)	17.80 x 15.59 (452 x 396)		•	•	8.75 (3.97)
PDA2310	10											
Vertical Cutouts												
PDA2301-V	1			•		11.8 x 7.9 x 7.0 (300 x 201 x 178)	11.0 x 7.0 x 6.9 (281 x 180 x 176)	9.96 x 7.72 (253 x 196)		•	•	3.15 (1.43)
PDA2302-V	2											
PDA2322	2	•	•	◉	•							
PDA2303-V	3					15.75 x 11.8 x 7.0 (400 x 300 x 178)	18.9 x 15.0 x 7.7 (480 x 381 x 196)	17.80 x 15.59 (452 x 396)		•	•	5.50 (2.49)
PDA2304-V	4			•								
PDA2305-V	5											
PDA2306-V	6											
No Cutouts												
PDA2303-B	N/A					11.8 x 7.9 x 7.0 (300 x 201 x 178)	11.0 x 7.0 x 6.9 (281 x 180 x 176)	9.96 x 7.72 (253 x 196)		•	•	3.15 (1.43)
PDA2308-B	N/A					15.75 x 11.8 x 7.0 (400 x 300 x 178)	15.0 x 11.0 x 6.9 (382 x 281 x 176)	13.90 x 11.65 (353 x 296)		•	•	5.50 (2.49)
PDA2310-B	N/A					19.7 x 15.75 x 7.9 (500 x 400 x 201)	18.9 x 15.0 x 7.7 (480 x 381 x 196)	17.80 x 15.59 (452 x 396)		•	•	8.75 (3.97)

DIMENSIONS

Units: Inches (mm)

Small Enclosures

BODY

11.8 (300)   11.8" (300)

7.9 (201)   5.8 (147)

COVER

11.8 (300)   11.8 (300)   11.3 (287)

7.9 (201)   1.2 (31)

Dimensions for: PDA2301, PDA2301-V, PDA2302, PDA2302-V, PDA2303, PDA2303-B, PDA2322.

Medium Enclosures

BODY

15.75 (400)   15.75 (400)

11.8 (300)   6.0 (152)

COVER

15.75 (400)   15.75 (400)   15.3 (389)

11.8 (300)   1.0
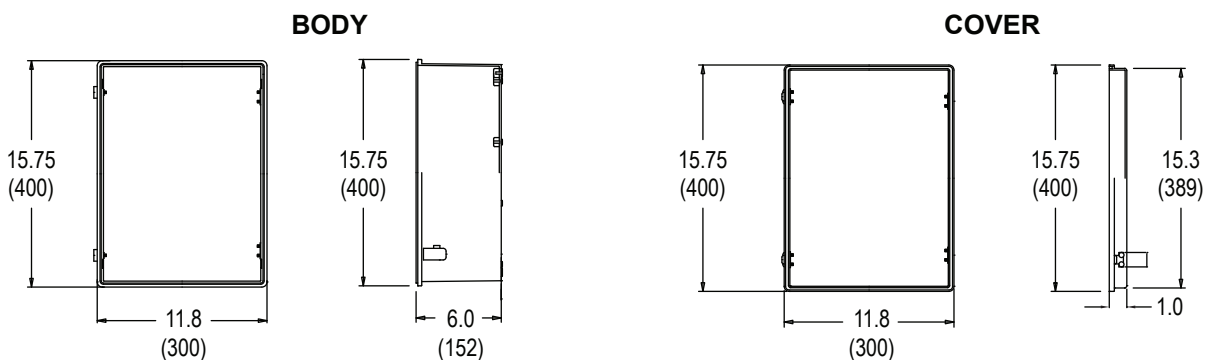
Dimensions for: PDA2303-V, PDA2304, PDA2304-V, PDA2304-1, PDA2304-2, PDA2304-3, PDA2305, PDA2305-V PDA2306, PDA2306-V, PDA2307, PDA2308, PDA2308-B, PDA2312.

Large Enclosures

BODY

19.7 (500)   19.7 (500)

15.75 (400)   6.8 (173)

COVER

19.7 (500)   19.7 (500)   19.2 (488)

15.75 (400)   1.20 (31)
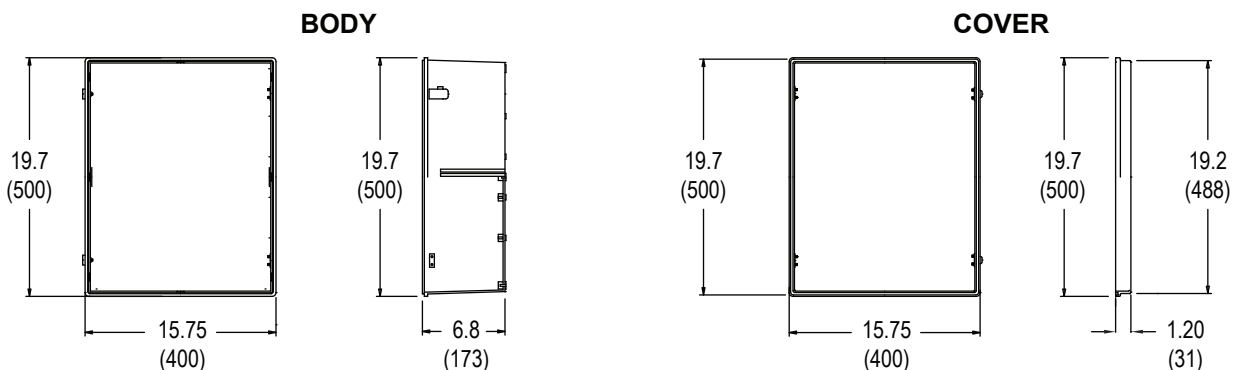
Dimensions for: PDA2309, PDA2310, PDA2310-B.

CAD

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

predig.com/documentation-cad

PDA2300 Economical Plastic NEMA 4X Enclosures

ORDERING INFORMATION

Horizontal Cutouts

Model	# of Meters	1/8 DIN Meter Type			
		B	C	D	E
PDA2301	1	•	•		•
PDA2302	2	•	•		•
PDA2303	3	•	•		•
PDA2304	4	•	•		•
PDA2304-1	1	•	•		•
PDA2304-2	2	•	•		•
PDA2304-3	3	•	•		•
PDA2305	5	•	•		•
PDA2306	6	•	•		•
PDA2307	7	•	•		•
PDA2308	8	•	•		•
PDA2309	9	•	•		•
PDA2310	10	•	•		•
PDA2312	2	•	•		•

Vertical Cutouts

Model	# of Meters	1/8 DIN Meter Type			
		B	C	D	E
PDA2301-V	1			•	
PDA2302-V	2			•	
PDA2303-V	3			•	
PDA2304-V	4			•	
PDA2305-V	5			•	
PDA2306-V	6			•	
PDA2322	2	•	•	◉	•

• 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
PDA2303-B	Enclosure with no Cutouts
PDA2308-B	Enclosure with no Cutouts
PDA2310-B	Enclosure with no Cutouts

Sub-Panels

Model	Description
PDP2303	For PDA2301 - PDA2303 & PDA2322
PDP2308	For PDA2304 - PDA2308 & PDA2312
PDP2310	For PDA2309 & PDA2310

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:

Order from:

C A Briggs Company
622 Mary Street; Suite 101
Warminster, PA 18974
Phone: 267-673-8117 - Fax: 267-673-8118
Sales@cabriggs.com - www.cabriggs.com

Disclaimer

The information contained in this document is subject to change without notice. Precision Digital Corporation makes no representations or warranties with respect to the contents hereof, and specifically disclaims any implied warranties of merchantability or fitness for a particular purpose.

©2010-2019 Precision Digital Corporation. All rights reserved.

LDS2300_I   03/19

PRECISION DIGITAL CORPORATION
233 South Street • Hopkinton MA 01748 USA

www.CABriggs.com