

PDA2300 Economical Plastic UL Type 4X Enclosures

Data Sheet



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

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PDA2301 Enclosure Shown with a ProVu Meter and MOD-LHRB1 Red Light/Horn and Button.

Meter & Light/Horn Sold Separately. Assembly Required.

FEATURES

- House up to 10 Instruments
- Plastic
- Horizontal, Vertical or No Cutouts
- 1/4, 1/8, and 1/16 DIN Cutout(s) Pre-Cut
- UL Type / NEMA 4X
- Hinged Door
- Stainless Steel Cover Latches
- Instruments Mounted in Cover
- Sub-Panels Available
- Mounting Hardware Provided
- PDA1024-01 24 VDC Power Supply Available
- UL Listed
- Light/Horn & Button
- Stainless Steel Sun Hood Available

OVERVIEW

The PDA2300 series of economical plastic UL Type / NEMA 4X enclosures for meters and controllers provides a convenient way to mount up to ten Precision Digital meters / controllers 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 1/4, 1/8, or 1/16 DIN cutouts, or they can be ordered with no cutouts. The instruments are mounted in the door of the enclosure thus allowing for programming and operation of the instrument. Mounting hardware is provided. The door is hinged and secured with stainless steel latches. Enclosures, meters/controllers and accessories are ordered and packaged separately.

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

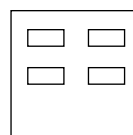
This utility simplifies the selection process of the right enclosure for your application based on the number and type of instruments to be installed in the enclosure. Below is a step-by-step overview of how this utility works.

STEP 1. Select number of instruments

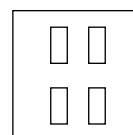
Select the total number of instruments to be installed in the enclosure from the drop down menu.

STEP 2. Select cutout configuration

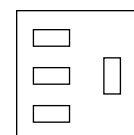
Select the cutout configuration desired for the enclosure. Choose from horizontal, vertical, or dual configurations as shown in the examples below for a 4 cutouts configuration.



4 Horizontal



4 Vertical



3 Horizontal
1 Vertical

STEP 3. Select type of instruments

Select the type of instrument(s) that will be installed into the enclosure. Below is an overview of the types of instruments supported.



For more information about instrument types see the enclosure Specifications or hover over an image while using the Enclosure Selection Utility.

STEP 4. Choose enclosure from results

SKU	Description	Stock	Lead Time	Price
PDA2301	PDA2300 Series NEMA 4X Plastic Enclosures Enclosure Cutouts: Four (4) Material: Plastic Meter Mounting: Through front panel Orientation: Horizontal Warranty: 1 year Approvals: UL/UL-UL	3	3 business days	\$269.00
PDA2304	PDA2300 Series NEMA 4X Plastic Enclosures Enclosure Cutouts: Four (4) DIN Size: 1/8 DIN Material: Plastic Meter Mounting: Through front panel Orientation: Horizontal Warranty: 1 year Approvals: UL/UL-UL	1	13 business days	\$349.00
PDA2304	PDA2300 Series Stainless Steel NEMA 4X Enclosures Enclosure Cutouts: Four (4) Material: Stainless Steel Meter Mounting: Through front panel	1	23 business days	\$699.00



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

MODELS AVAILABLE

1/8 DIN Horizontal Cutouts



PDA2301



PDA2302



PDA2303



PDA2304



PDA2304-1



PDA2304-2



PDA2304-3



PDA2305



PDA2306



PDA2307



PDA2308



PDA2309



PDA2310



PDA2312



Need help selecting the right enclosure?
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MODELS AVAILABLE (CONTINUED)

1/8 DIN Vertical Cutouts



PDA2301-V



PDA2302-V



PDA2303-V



PDA2304-V



PDA2305-V



PDA2306-V



PDA2322

1/4 DIN Cutouts



PDA2301-4



PDA2302-4



PDA2301-16



PDA2302-16

1/16 DIN Cutouts

No Cutouts



PDA2303-B



PDA2308-B



PDA2310-B

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: 10.5" × 6.5"

(266 mm × 166 mm)

PDP2308: 14.4" × 10.4"

(365 mm × 265 mm)

PDP2310: 18.0" × 14.1"

(458 mm × 358 mm)

Material:

ABS Plastic
Mounting hardware is included.

Model	PDP2303	PDP2308	PDP2310
1/8 DIN Horizontal Cutouts			
PDA2301	•		
PDA2302	•		
PDA2303	•		
PDA2304		•	
PDA2304-1		•	
PDA2304-2		•	
PDA2304-3		•	
PDA2305		•	
PDA2306		•	
PDA2307		•	
PDA2308		•	
PDA2309			•
PDA2310			•
PDA2312		•	
Vertical Cutouts			
PDA2301-V	•		
PDA2302-V	•		
PDA2303-V		•	
PDA2304-V		•	
PDA2305-V		•	
PDA2306-V		•	
PDA2322	•		

Model	PDP2303	PDP2308	PDP2310
1/4 DIN Cutouts			
PDA2301-4	•		
PDA2302-4	•		
1/16 DIN Cutouts			
PDA2301-16	•		
PDA2302-16	•		
No Cutouts			
PDA2303-B	•		
PDA2308-B		•	
PDA2310-B			•

ACCESSORIES (CONTINUED)



PDA-SSTAG Stainless Steel Tags

PDA-SSTAG is a laser etched stainless steel tag accessory for any Precision Digital meters / controllers. 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.



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: 21.6-29 VDC; $\pm 10\%$ 1.5A rated current.

Dimensions: 1.40" x 3.50" x 2.10"

(35 mm x 90 mm x 54.5 mm) (W x H x D)



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.



PDA-BUTTON Momentary Pushbutton

The PDA-BUTTON Series are IP67 fully sealed momentary pushbuttons that can be used for a variety of applications, such as resetting the manually-resettable relays on various Precision Digital meters. They are available with red, black and green buttons.



Button Labels

The button comes with 9 pre-printed message labels the user can affix under the button: RESET, BATCH, ACK, TARE, SILENCE, STOP, START, PAUSE, START/STOP.



MOD-BUTTON Pushbutton with Hole Drilled in Enclosure

When this is ordered, the enclosure comes pre-drilled with a hole for pushbutton to be installed by user. Enclosure is sold separately. The pushbutton is centered on the cover of the enclosure about an inch off the bottom. For mounting in different locations, order items separately and drill holes and mount as desired. Other pushbutton colors are available.

ACCESSORIES (CONTINUED)

PDA2300 Series Enclosure with Light/Horn

Transform Precision Digital meters and controllers housed in an enclosure into an efficient display, control, and alarm system with the MOD-LH series. It provides a light/horn to boost visibility of alarm conditions, a button that connects to the meter's digital input to control or reset the alarms, and hole drilling on the enclosure for both the light/horn and button to make user installation and wiring quick and easy. Enclosure and meter are sold separately.

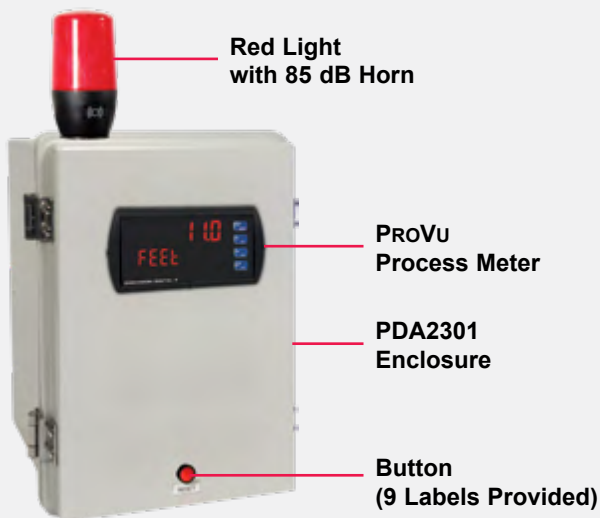
The MOD-LH series is compatible with a wide range of Precision Digital UL Type / NEMA 4 & 4X enclosures as well as meters and controllers including the ProVu, Trident, Loop Leader, and ConsoliDator+ Series.

Overall, the MOD-LH series is a simple solution for Precision Digital meters and controllers that adds audible and visual ways to indicate critical alarms.

What's Included



ProVu Meter Shown in a PDA2301 Enclosure with MOD-LHRB1 Red Light/Horn and Button.
Meter & Enclosure Sold Separately. Assembly Required.



ACCESSORIES (CONTINUED)

PDA18DINSH Stainless Steel Sun Hood for 1/8 DIN Panel Meters

The PDA18DINSH Sun Hood improves the readability of 1/8 DIN digital panel meters when they are mounted in direct sunlight by shading the instrument from the sun.

The Sun Hood is made from 18 gauge 316 stainless steel and mounts between the 1/8 DIN digital panel meter and the panel. In addition, a gasket is provided that installs between the Sun Hood and the panel to provide a UL Type (NEMA) 4X seal to the panel. The whole assembly is held in place by the panel meter's mounting brackets.

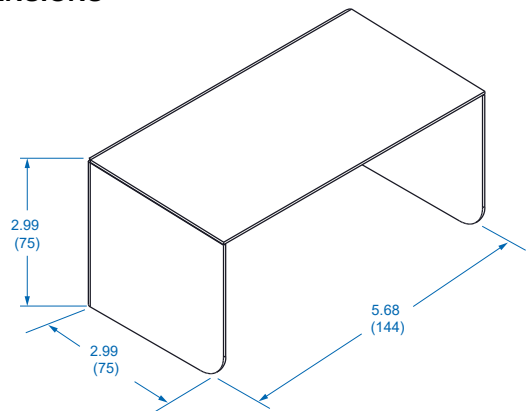
SPECIFICATIONS

Material	18 gauge 316 stainless steel
Overall Dimensions	2.99" x 5.68" x 2.99" (H x W x D) (75 mm x 144 mm x 75 mm)
Weight	0.9 lb (0.4 kg)
Gasket Material	Silicone Foam

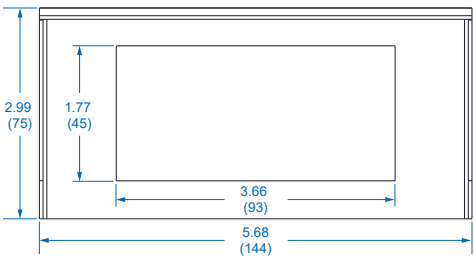


Meter & Enclosure Sold Separately. Assembly Required.

DIMENSIONS



Units: Inches (mm)



The following table shows the compatibility of Precision Digital enclosures with the Sun Hood:



Number of Meters	PDA2300 UL Type 4X Plastic	PDA2600 UL Type 4X Stainless Steel	PDA2700 UL Type 4 Steel	PDA2800 UL Type 4 & 4X Low Cost Plastic	PDA3400 Internally Mounted UL Type 4X Plastic
1	PDA2301	PDA2601	PDA2701	PDA2811	None
2	PDA2302	PDA2602	PDA2702	PDA2812	None
3	PDA2303	PDA2603	PDA2703	None	None
4-6	None	None	None	None	None

SPECIFICATIONS

General

Material: Thermoplastic Polyester

Color: Gray

Instruments: Houses up to 10 meters / controllers

Instrument Mounting Method: Through cover

Cover Mounting Method: Hinge / Latch

Ratings: UL Type / NEMA 4X

Approvals: UL, C-UL

Operating Temperature: -40 to 120°C

Warranty: 1 year

Instrument Types

Type	Instruments
C	PD603, PD644, PD743, PD765, PD6602, PD6603, PD6604, PD6606, PD6607, PD6608, PD6622, PD6624, and PD6626, and PD6628.
D	PD138, PD154, PD158, and PD520
E	PD6000, PD6001, PD6060, PD6080, PD6081, PD6088, PD6089, PD6100, PD6200, PD6210, PD6262, PD6300, PD6310, PD6310-WM, PD6363, PD6400, and PD7000
F	PD530
G	PD510

Dimensions / Features

• Available ■ 1 Required

Model	# of Cutouts	Instrument Type					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 Light/Horn	Weight lb (kg)
		C	D	E	F	G							
1/8 DIN 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	•		•			19.7 x 15.8 x 7.9 (500 x 401 x 201)	18.7 x 14.8 x 7.0 (475 x 375 x 182)	17.80 x 15.59 (452 x 396)		•	•	8.75 (3.97)
PDA2309	9												
PDA2310	10												
1/8 DIN 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)	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-V	4												
PDA2305-V	5												
PDA2306-V	6												

SPECIFICATIONS (CONTINUED)

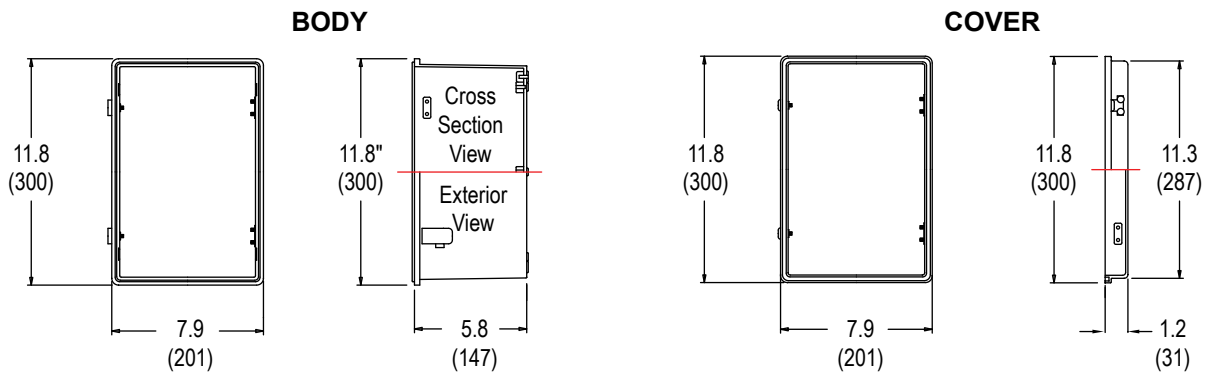
Dimensions / Features

Model	# of Cutouts	Instrument Type					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 Light/Horn	Weight lb (kg)
		1/4 and 1/16 DIN Cutouts											
PDA2301-4	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)
PDA2302-4	2												
PDA2301-16	1					•							
PDA2302-16	2												
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 15.8 x 7.9 (500 x 401 x 201)	18.7 x 14.8 x 7.0 (475 x 375 x 182)	17.80 x 15.59 (452 x 396)		•	•	8.75 (3.97)

DIMENSIONS

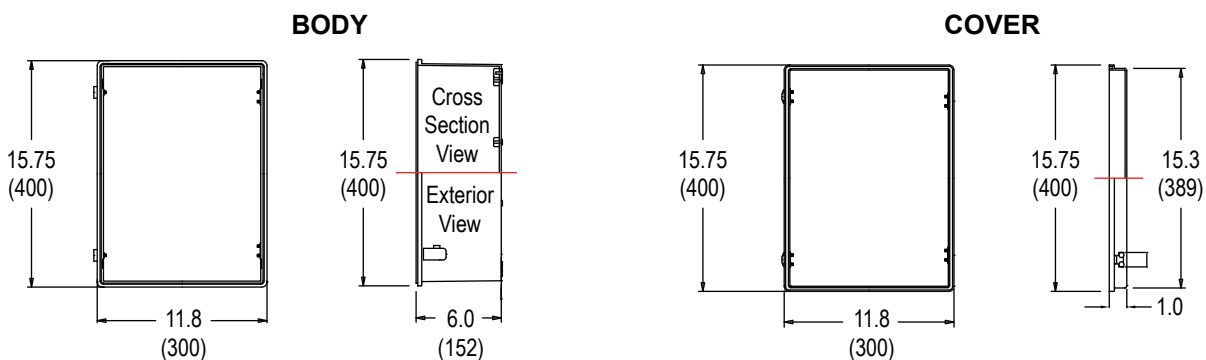
Units: Inches (mm)

Small Enclosures



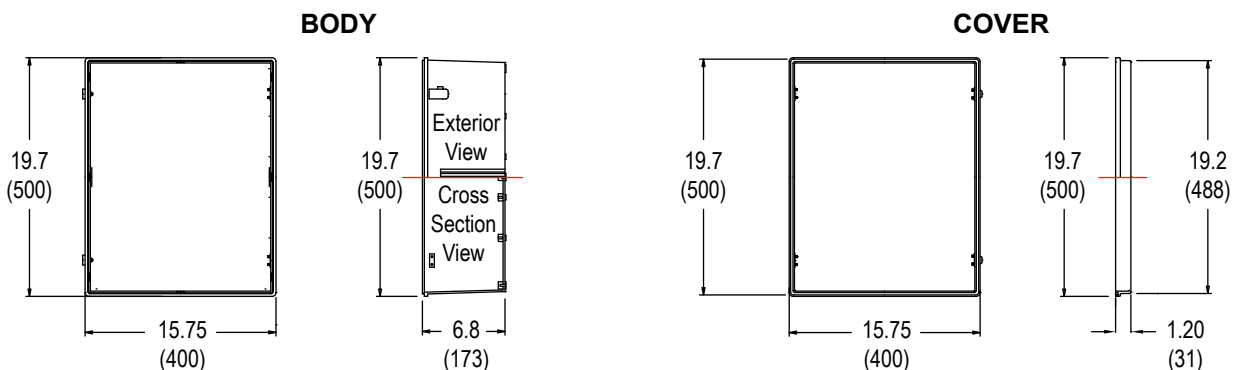
Dimensions for: PDA2301, PDA2301-4, PDA2301-16, PDA2301-V, PDA2302, PDA2302-4, PDA2302-16, PDA2302-V, PDA2303, PDA2303-B, PDA2322.

Medium Enclosures



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



Dimensions for: PDA2309, PDA2310, PDA2310-B.



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ORDERING INFORMATION

1/8 DIN Horizontal Cutouts

Model	# of Cutouts	Instrument Type	
		C	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	•	•

1/8 DIN Vertical Cutouts

Model	# of Cutouts	Instrument Type		
		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

1/4 and 1/16 DIN Cutouts

Model	# of Cutouts	Instrument Type	
		F	G
PDA2301-4	1	•	
PDA2302-4	2	•	
PDA2301-16	1		•
PDA2302-16	2		•

**WARNING**

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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Instrument Types

Type	Instruments
C	PD603, PD644, PD743, PD765, PD6602, PD6603, PD6604, PD6606, PD6607, PD6608, PD6622, PD6624, and PD6626, and PD6628.
D	PD138, PD154, PD158, and PD520
E	PD6000, PD6001, PD6060, PD6080, PD6081, PD6088, PD6089, PD6100, PD6200, PD6210, PD6262, PD6300, PD6310, PD6310-WM, PD6363, PD6400, and PD7000
F	PD530
G	PD510

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-BUTTON1B-P	IP67 Blue ⁽³⁾ Pushbutton ⁽²⁾ with Hole Drilled in Plastic Enclosure
MOD-BUTTON1G-P	IP67 Green ⁽³⁾ Pushbutton ⁽²⁾ with Hole Drilled in Plastic Enclosure
MOD-BUTTON1R-P	IP67 Red ⁽³⁾ Pushbutton ⁽²⁾ with Hole Drilled in Plastic Enclosure
MOD-LHRB1	Red ⁽³⁾ Light/Horn + Button with Holes Drilled ⁽¹⁾ in Enclosure
PDA1002	6" DIN Rail Mounting Kit
PDA1024-01	24 VDC Power Supply for DIN Rail
PDA18DINSH	Stainless Steel Sun Hood
PDA-BUTTON1R	Red ⁽³⁾ Button ⁽²⁾
PDA-LHR	Red ⁽³⁾ Light/Horn
PDA-SSTAG	Stainless Steel Tag
PDX18DIN-FILLER	1/8 DIN Cutout Filler

- When a MOD-LH is ordered, the enclosure comes pre-drilled with holes for Light/Horn and Button to be installed by user. Meter / controller and enclosure are sold separately. The Light/Horn hole is located on the top in the back left corner of the enclosure and the button hole is centered on the front of the enclosure about an inch off the bottom of the door. **For mounting in different locations, order items separately and drill holes and mount as desired.**
- The Button works only with meters / controllers that have digital input contacts.
- For other color options see corresponding instruction manual.

LDS2300_N 11/24