

PDA2800 Smallest Footprint Plastic UL Type 4 & 4X Enclosures

Data Sheet



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PDA2811 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 4 Instruments
- Plastic
- Horizontal, Vertical or No Cutouts
- 1/4, 1/8, and 1/16 DIN Cutout(s) Pre-Cut
- 1/2" Conduit Hole
- UL Type / NEMA 4X (PDA2801, PDA2802 UL Type / NEMA 4)
- Instruments Mounted in Cover
- Cover Held in Place with Screws
- UL, C-UL Listed
- PDA2801, PDA2802 Mounting Holes Through Enclosure
- PDA2811 - PDA2821 Mounting Hardware Provided
- Light/Horn & Button
- Pipe Mounting Kit Available

OVERVIEW

The PDA2800 series of economical small footprint plastic UL Type / NEMA 4 & 4X enclosures provide a convenient way to mount up to four Precision Digital meters / controllers to walls and other vertical structures. The PDA2811 and PDA2821 enclosures also have room for a light/horn accessory. 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. Models with cutouts for PD420 / PD460 are also available. All enclosures are provided with a 1/2" conduit hole in the base of the enclosure. The instruments are mounted in the cover of the enclosure thus allowing for programming and operation of the instrument. No additional mounting hardware other than screws is needed. The cover is secured with four screws. Pipe mounting kit is available for mounting the enclosures to 2" pipes. Enclosures, meters/controllers and accessories are ordered and packaged separately.

WALL MOUNTING

The PDA2801 and PDA2802 use four screws (not included) that go through the back of the enclosure for quick and easy wall mounting. The PDA2811, PDA2812, PDA2813, PDA2814, PDA2815 and PDA2821 enclosures include four mounting flanges and four screws. Using the 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.



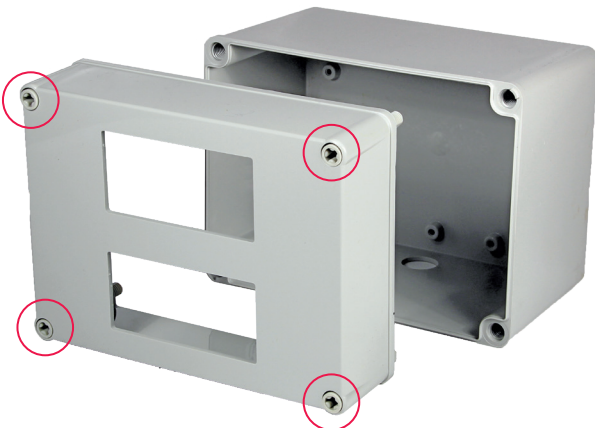
PDA2811 - PDA2815 enclosure with supplied mounting flanges installed



PDA2801 - PDA2802 with screws through back of enclosure for wall mounting

COVER SECURING METHOD

The cover is secured with four screws.



ENCLOSURE SELECTION UTILITY

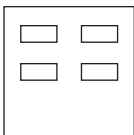
This utility simplifies the selection process of the right enclosure for your application based on the number and type of instruments to be installed in the enclosure. Below is a step-by-step overview of how this utility works.

STEP 1. Select number of instruments

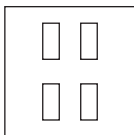
Select the total number of instruments to be installed in the enclosure from the drop down menu.

STEP 2. Select cutout configuration

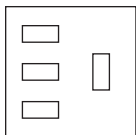
Select the cutout configuration desired for the enclosure. Choose from horizontal, vertical, or dual configurations as shown in the examples below for a 4 cutouts configuration.



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	
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



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the right enclosure?
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MODELS AVAILABLE

1/8 DIN Horizontal Cutouts



PDA2801



PDA2811



PDA2812

1/8 DIN Vertical Cutouts



PDA2801-V



PDA2811-V



PDA2812-V



PDA2821

PD420 / PD460 Cutouts



PDA2802



PDA2814



PDA2815



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MODELS AVAILABLE (CONTINUED)

1/4 DIN Cutouts



PDA2811-4



PDA2801-16



PDA2802-16



PDA2811-16



PDA2812-16



PDA2813-16



PDA2814-16

No Cutouts



PDA2801-B



PDA2812-B



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ACCESSORIES



PDA6845-SS 2" Pipe Mounting Kit

The PDA6845-SS pipe mounting kit provides convenient ways to mount PDA2800 enclosures to 2" pipes. The kit can be oriented either horizontally (as shown) or vertically (to accommodate 1/8 DIN vertical instruments.)



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.



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.



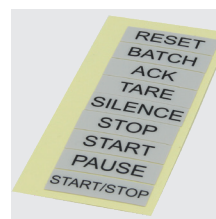
MOD-BUTTON Pushbutton with Hole Drilled in Enclosure

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.



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.

ACCESSORIES (CONTINUED)

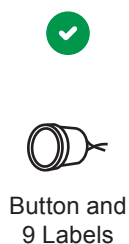
PDA2800 Series Enclosures with Light/Horn

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.

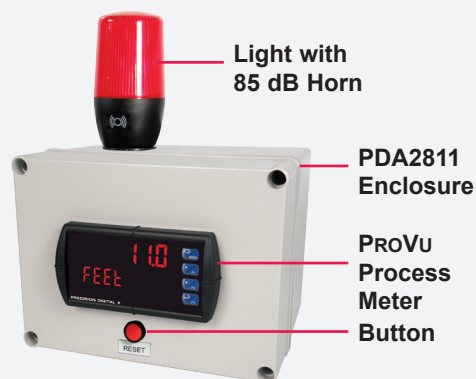
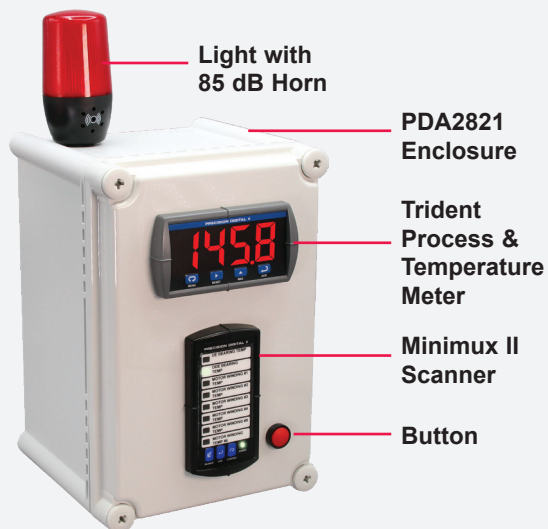
The MOD-LH series is compatible with a wide range of Precision Digital UL Type / NEMA 4 & 4X enclosures as well as meters and controllers including the PROVu, Trident, Loop Leader, and ConsoliDator+ Series.

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



Trident Meter and Minimax II Scanner Shown in a PDA2821 Enclosure with MOD-LHRB1 Red Light/Horn and Button.
Meters & 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.

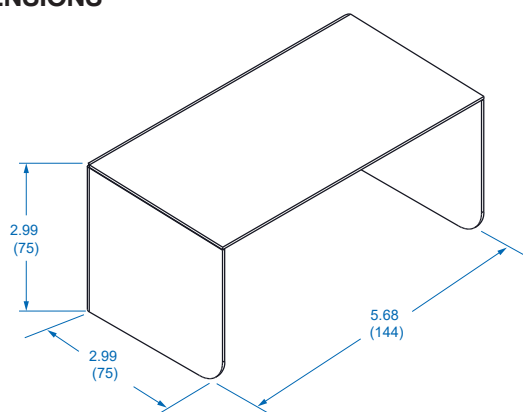
The Sun Hood is made from 18 gauge 316 stainless steel and mounts between the 1/8 DIN digital panel meter and the panel. In addition, a gasket is provided that installs between the Sun Hood and the panel to provide a NEMA 4X seal to the panel. The whole assembly is held in place by the panel meter's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



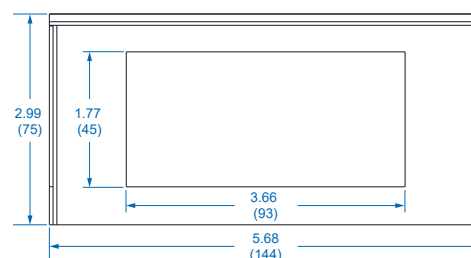
SPECIFICATIONS

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

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 4 meters / controllers

Instrument Mounting Method: Through cover

Cover Mounting Method: Screws

Ratings: UL Type / NEMA 4X

(PDA2801 / PDA2802 UL Type / NEMA 4)

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
H	PD420, and PD460

Dimensions / Features

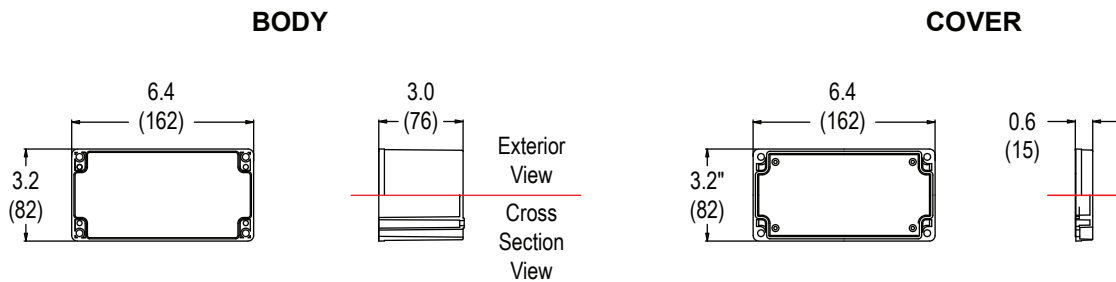
• Available ■ 1 Required

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	H								
1/8 DIN Horizontal Cutouts															
PDA2801	1	•						3.2 x 6.4 x 3.6 (82 x 162 x 91)	3.0 x 6.1 x 3.2 (75 x 156 x 82)	2.6 x 5.7 (66 x 145)	•			0.60 (0.27)	
PDA2811	1	•		•				5.9 x 7.9 x 6.4 (150 x 200 x 163)	5.5 x 7.5 x 5.9 (140 x 190 x 150)	5.2 x 7.2 (132 x 182)	•			1.75 (0.79)	
PDA2812	2														
1/8 DIN Vertical Cutouts															
PDA2801-V	1		•					3.2 x 6.4 x 3.6 (82 x 162 x 91)	3.0 x 6.1 x 3.2 (75 x 156 x 82)	2.6 x 5.7 (66 x 145)	•			0.60 (0.27)	
PDA2811-V	1		•					5.9 x 7.9 x 6.4 (150 x 200 x 163)	5.5 x 7.5 x 5.9 (140 x 190 x 150)	5.2 x 7.2 (132 x 182)	•		•	1.75 (0.79)	
PDA2812-V	2														
PDA2821	2	•	■	•				11.0 x 7.5 x 7.1 (280 x 190 x 180)	10.5 x 6.7 x 6.7 (266 x 170 x 170)	10.0 x 6.5 (255 x 165)	•		•	2.80 (1.27)	
1/4 and 1/16 DIN Cutouts															
PDA2811-4	1				•			5.9 x 7.9 x 6.4 (150 x 200 x 163)	5.5 x 7.5 x 5.9 (140 x 190 x 150)	5.2 x 7.2 (132 x 182)	•		•	1.75 (0.79)	
PDA2801-16	1							3.2 x 6.4 x 3.6 (82 x 162 x 91)	3.0 x 6.1 x 3.2 (75 x 156 x 82)	2.6 x 5.7 (66 x 145)	•			0.60 (0.27)	
PDA2802-16	2														
PDA2811-16	1							•	5.9 x 7.9 x 6.4 (150 x 200 x 163)	5.5 x 7.5 x 5.9 (140 x 190 x 150)	5.2 x 7.2 (132 x 182)	•		•	1.75 (0.79)
PDA2812-16	2														
PDA2813-16	3														
PDA2814-16	4														
PD420/460 Cutouts															
PDA2802	1							3.2 x 6.4 x 3.6 (82 x 162 x 91)	3.0 x 6.1 x 3.2 (75 x 156 x 82)	2.6 x 5.7 (66 x 145)	•			0.60 (0.27)	
PDA2814	2														
PDA2815	3							•	5.9 x 7.9 x 6.4 (150 x 200 x 163)	5.5 x 7.5 x 5.9 (140 x 190 x 150)	5.2 x 7.2 (132 x 182)	•		•	1.75 (0.79)
No Cutouts															
PDA2801-B	N/A							3.2 x 6.4 x 3.6 (82 x 162 x 91)	3.0 x 6.1 x 3.2 (75 x 156 x 82)	2.6 x 5.7 (66 x 145)				0.60 (0.27)	
PDA2812-B	N/A							5.9 x 7.9 x 6.4 (150 x 200 x 163)	5.5 x 7.5 x 5.9 (140 x 190 x 150)	5.2 x 7.2 (132 x 182)	•		•	1.75 (0.79)	

DIMENSIONS

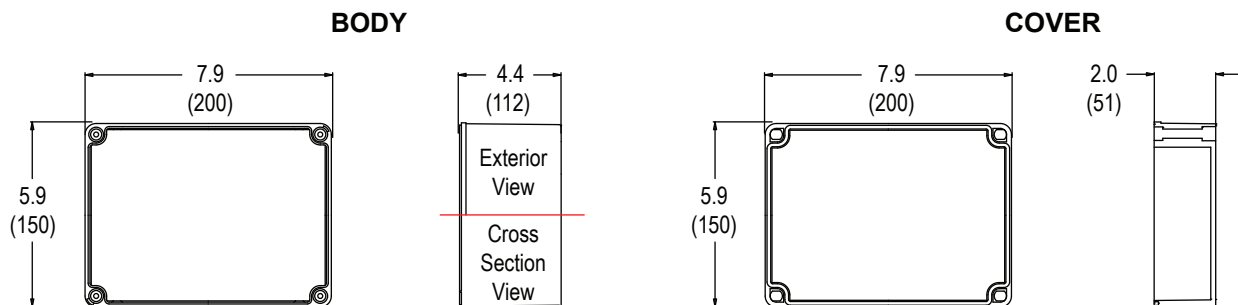
Units: Inches (mm)

Small Enclosures



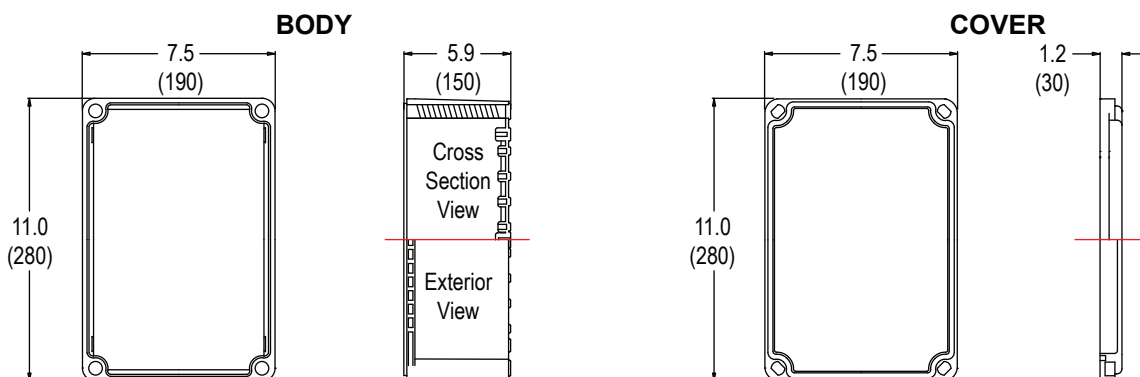
Dimensions for: PDA2801, PDA2801-16, PDA2801-V, PDA2802, and PDA2802-16

Medium Enclosures



Dimensions for: PDA2811, PDA2811-4, PDA2811-16, PDA2811-V, PDA2812, PDA2812-16, PDA2812-V, PDA2813-16, PDA2814, PDA2814-16, and PDA2815

Large Enclosure



Dimensions for: PDA2821



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ORDERING INFORMATION

1/8 DIN Horizontal Cutouts

Model	# of Cutouts	Instrument Type	
		C	E
PDA2801	1	•	
PDA2811	1	•	•
PDA2812	2	•	•

1/8 DIN Vertical Cutouts

Model	# of Cutouts	Instrument Type		
		C	D	E
PDA2801-V	1		•	
PDA2811-V	1		•	
PDA2812-V	2		•	
PDA2821	2	•	■	•

• Available ■ 1 Required

1/4 and 1/16 DIN Cutouts

Model	# of Cutouts	Instrument Type	
		F	G
PDA2811-4	1	•	
PDA2801-16	1		•
PDA2802-16	2		•
PDA2811-16	1		•
PDA2812-16	2		•
PDA2813-16	3		•
PDA2814-16	4		•

PD420/PD460 Cutouts

Model	# of Devices	Instrument Type
		H
PDA2802	1	•
PDA2814	2	•
PDA2815	3	•



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⚠ WARNING

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

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
H	PD420, and PD460

No Cutouts

Model	Description
PDA2801-B	Enclosure with no Cutouts
PDA2812-B	Enclosure with no Cutouts

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
PDA1003	7" DIN Rail Mounting Kit for PDA2811, PDA2812, PDA2814, PDA2815, PDA2812-B
PDA18DINSH	Stainless Steel Sun Hood
PDA6845-SS	2" Pipe Mounting Kit, Stainless Steel, for PDA2811 - PDA2815
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.

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