



## Takeaways



Identify ways you can use the Light / Horn accessory to satisfy alarm applications



Understand how the Light / Horn accessory installs and is powered by the meter



See an actual demonstration of the Light / Horn and Reset Button in action



Know what NEMA 4 and 4X enclosures are available for PROVU and the Light / Horn

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## Light / Horn Overview

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## What does it do?



Adds visual and audible alarm capabilities to Helios and PROVU Meters



The light and horn are controlled and reset independently from separate relays



The light can be wired to flash (not available on 5 color light) or stay steady on



Powered by the meter's internal transmitter power supply

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## How is it installed?



### Helios

- Mounted and wired to meter from factory
- Ready to go!

*Meter and MOD-PD2LH are sold separately.*



### ProVu

- Holes are drilled into the enclosure for Light / Horn and Reset Button
- User mounts and wires them

*Meter, enclosure, & MOD-LH are sold separately.*

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## How is it powered up?



The Light / Horn is powered by the meter's 200 mA internal transmitter power supply



$17 \text{ mA} + 20 \text{ mA} = 37 \text{ mA}$   
Red light + Horn = Power used

To determine the remaining power, add the currents for the light(s) being used and the horn if used.

*See manual for details.*



Typically there is enough power left to power the transmitter



If more power is needed for the transmitter, then consider our external power supply (PDA1024-01)

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How do I order it?



All items are sold separately. Order the meter and MOD-PD2LH model as separate items:

Item	Description
1	Helios Meter with 2 or 4 Relays
2	MOD-PD2LH Light / Horn / 1 Reset Button Mounted and Wired to Helios



All items are sold separately. Assembly required. Order the meter, enclosure, and MOD-LH model as separate items:

Item	Description
1	PROVU Meter with 2 or 4 Relays
2	NEMA 4 or NEMA 4X Enclosure that Accepts MOD-LH
3	MOD-LH Light / Horn and Reset Button with Holes Drilled in Enclosure

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## Light / Horn for Helios

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## MOD-PD2LH – Light / Horn for Helios Meters



*Maintains NEMA 4X rating, but voids UL approval.*



Includes a light with an 85 dB horn, and a reset button



Mounted and wired to Helios from factory



Powered by the Helios's Internal transmitter power supply



Helios supports up to 4 internal relays

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## 3 Light Options



### Single Color Light

Available in Red, Green, Yellow, Blue, or White Light

Flashing or Steady On Light



### 5 Color Light

User Selectable Red, Green, Yellow, Blue, or White Light

Steady On Light



### 3 Layered Color Light

Three Color Layers in Red, Yellow, and Green

Flashing or Steady On Light



## MOD-PD2LH Pricing



Model	Price	Light	Horn	Reset Button	Light Action
MOD-PD2LHRB1	\$300		✓	✓	Flash or Steady On
MOD-PD2LHGB1	\$300		✓	✓	Flash or Steady On
MOD-PD2LHYB1	\$300		✓	✓	Flash or Steady On
MOD-PD2LHBB1	\$300		✓	✓	Flash or Steady On
MOD-PD2LHWB1	\$300		✓	✓	Flash or Steady On
MOD-PD2LH5CB1	\$350		✓	✓	Steady On
MOD-PD2LH3LCB1-RYG	\$400		✓	✓	Flash or Steady On

All come mounted and wired to Helios from factory.

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## Light / Horn for PROVu

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## MOD-LH – Light / Horn for PROVU Meters



Includes a light with an 85 dB horn, and a reset button



Holes are drilled for light / horn and reset button in enclosure



Powered by the PROVU's internal transmitter power supply



PROVU supports up to 4 internal relays

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## 3 Light Options



### Single Color Light

Available in **Red**, **Green**, **Yellow**, **Blue**, or **White** Light

Flashing or Steady On Light



### 5 Color Light

User Selectable **Red**, **Green**, **Yellow**, **Blue**, or **White** Light

Steady On Light



### 3 Layered Color Light

Three Color Layers in **Red**, **Yellow**, and **Green**

Flashing or Steady On Light

## Available on These Enclosures



### **PDA2300 Economical Plastic NEMA 4X Enclosures**

Available on all enclosures



### **PDA2500 Rugged Plastic NEMA 4X Enclosures**

Available on all enclosures



### **PDA2600 Stainless Steel NEMA 4X Enclosures**

Available on all enclosures



### **PDA2700 Steel NEMA 4 Enclosures**

Available on all enclosures



### **PDA2800 Smallest Footprint Plastic NEMA 4X Enclosures**

Available on all enclosures except  
PDA2801 and PDA2812.



### **PDA3400 Internally Mounted Plastic NEMA 4X Enclosures**

Available on all enclosures except the  
PDA3411, PDA3412, PDA3414.

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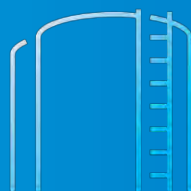
## MOD-LH Pricing



Model	Price	Light	Horn	Reset Button	Light Action
MOD-LHRB1	\$275		✓	✓	Flash or Steady on
MOD-LHGB1	\$275		✓	✓	Flash or Steady on
MOD-LHYB1	\$275		✓	✓	Flash or Steady on
MOD-LHBB1	\$275		✓	✓	Flash or Steady on
MOD-LHWB1	\$275		✓	✓	Flash or Steady on
MOD-LH5CB1	\$325		✓	✓	Steady on
MOD-LH3LCB1-RYG	\$375		✓	✓	Flash or Steady on

Enclosure comes pre-drilled with holes for light / horn and reset button. Installation by user.

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# Application Examples

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Single Light



User  
Device

User  
Device

	Relay 1	Relay 2	Relay 3	Relay 4
<i>Purpose</i>	Alarm	Alarm	As user desires	As user desires
<i>Action</i>	Auto	Latch	As user desires	As user desires

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5 Color Light



	Relay 1	Relay 2		Relay 3	Relay 4
<i>Purpose</i>	Low Alarm	All OK	High Alarm	Low Alarm	High Alarm
<i>Range</i>	< 199	200 to 500	> 500	< 199	> 500
<i>Set</i>	200	501	501	199	501
<i>Reset</i>	199	500	500	200	500
<i>Action</i>	Auto	Auto	Auto	Latch	Latch

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3 Layered Color Light



	Relay 1	Relay 2		Relay 3	Relay 4
<i>Purpose</i>	All OK	Warning	High Alarm	Warning	High Alarm
<i>Range</i>	< 199	200 to 500	> 500	200 to 500	> 500
<i>Set</i>	200	501	501	200	501
<i>Reset</i>	199	500	500	199	500
<i>Action</i>	Auto	Auto	Auto	Latch	Latch

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## Other Accessories

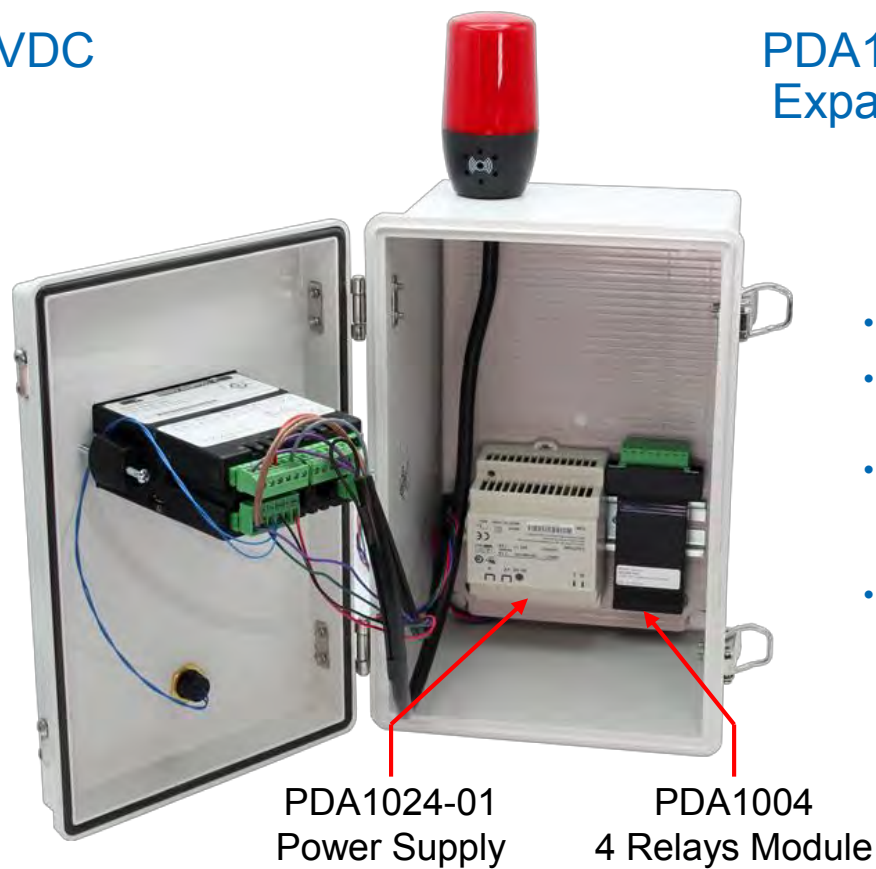
PRECISION INSTRUMENTS

## PDA1024-01 24 VDC Power Supply

- Provides additional power to power the transmitter
- Fits inside most enclosures
- Mounts on a DIN rail
- **\$82**

## PDA1004 4 Relays Expansion Module

- For PROVu meters
- Provides 4 external relays
- Adds even more alarming possibilities
- **\$83**



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## PD9502 - Low-Cost Signal Generator

\$99



Generates a 4-20 mA  
or 0-10 VDC signal

Set for 0-20 mA,  
4-20 mA, 0-10 V  
or 2-10 V ranges



Compact size

One-turn  
adjustment  
knob

15-27 VDC or  
USB Power

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## PD420 - Panel Mount 4-20 mA Set-Point Generator

\$149

Generates a 4-20 mA  
signal to control  
another device

Outputs 4-20 mA or  
3-21 mA

Panel mount

Built-in dial for coarse  
or fine adjustment

Displays 0-100%,  
4-20 mA or 3-21 mA

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## Summary



Adds visual and audible alarm capabilities to Helios and PROVU Meters



The light and horn are controlled and reset independently from separate relays



The light can be wired to flash (select models) or stay steady on



Powered by the meter's internal transmitter power supply

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