FEATURES

- Holes Drilled for Light / Horn and Reset Button in Enclosure
- Single Lights Available in Red, Green, Yellow, Blue, or White
- Units with One of Five User Selectable Lights Available
- Trident X2 Meter Can be Equipped with 2 Relays to Drive Light and Horn
- Light / Horn Programmable for Variety of Reset Functions, Including:
  - Silence Horn at Any Time
  - Light Stays on Until Alarm Clears
- Light Can Be Wired to Flash (Not Available on MOD-LH5CB1-X2) or Stay Steady On
- IP 65 Rated
- 85 dB Horn
- Operates from -40 to 40°C (-40 to 104°F)
- Control Station Accessory For Remote Operation of Light / Horn Button
MOD-LHX2 Series Light / Horn Accessory for Trident X2 Meters

OVERVIEW

Precision Digital offers a wide variety of NEMA 4 and NEMA 4X enclosures that can be equipped with MOD-LHX2 Light / Horn and Reset Button for the Trident X2 meter. The MOD-LHX2 Series is available in two different light configurations. The first option is a factory ordered Light / Horn with a color of either red, green, yellow, blue, or white. The second option is a Light / Horn the user determines the light color (red, green, yellow, blue or white) by connecting the appropriate wire.

The MOD-LHX2 can be powered from the Trident X2’s 200 mA transmitter power supply with enough power left over to drive most transmitters.

The light(s) and horn can be controlled independently of each other by up to two separate relays on the Trident X2 meter. These relays can be programmed for automatic or manual reset action to satisfy a wide variety of audible and visual alarm applications. The light can be programmed to flash (not available on MOD-LH5CB1-X2) or stay steady-on.

When MOD-LHX2 is ordered, the accompanying enclosure on the order comes with the holes pre-drilled for the Light / Horn and the Reset Button and the user performs the mounting and wiring. Meter and enclosure are sold separately. The Light / Horn and the Reset Button can also be ordered as separate items and the user performs all hole-drilling, mounting and wiring as desired.

Notes:
1. The Light / Horn accessory is powered from the 200 mA transmitter power supply; so when it is installed, there is less power available for the transmitter. See Transmitter Power Supply specification on page 7 for details.
2. The Trident X2 meter has only two relays; consider the ProVu meter that has capability of four relays for applications requiring more flexibility.
**MOD-LHX2 Series** Light / Horn Accessory for Trident X2 Meters

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**CONNECTIONS**

![Diagram of MOD-LHX2 Series Light / Horn Accessory](image)

**MOD-LHX2 Models**

Connections shown for a red light model. For other MOD-LHX2 models, the red wire is the color of the light. Connect the red and black wires for a Steady On light and red and gray wires for Flashing light.

**MOD-LH5CB1-X2**

Connect the LED color to the plus supply and the black wire to the minus supply to turn the LED on. Be aware of limitations for applications requiring different color lights for different alarm conditions.

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**CONTROL STATIONS FOR REMOTE OPERATION OF LIGHT / HORN**

The PDA2360 series of plastic control stations provide a convenient way to remotely control the Light / Horn. The control stations can mimic the button on the front of MOD-LHX2 for remote control of the Light / Horn. The PDA2361-R is used to reset an alarm, the PDA2361-A is used to acknowledge an alarm, and the PDA2361-Q is used to silence an alarm.

**Ordering Information**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDA2361-R</td>
<td>1 Black Reset Button</td>
</tr>
<tr>
<td>PDA2361-A</td>
<td>1 Black Ack Button</td>
</tr>
<tr>
<td>PDA2361-Q</td>
<td>1 Black Silence Button</td>
</tr>
</tbody>
</table>

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**PDA2361-R**

**PDA2361-A**

**PDA2361-Q**
**MOD-LHX2 HOLE LOCATIONS**

When MOD-LHX2 is ordered with an enclosure, the enclosure comes pre-drilled with holes for Light / Horn and Reset Button.

**Light / Horn**
The Light / Horn hole is on the top, back left corner of the enclosure.

**Reset Button**
The Reset Button is centered on the cover of the enclosure below the meter about an inch off the bottom of the cover except on the PDA3400 series where it is mounted on the side of the enclosure.

**WIRING CONNECTIONS FOR MOD-LHX2 MODELS**

**Using Trident X2’s Internal Power Supply**

- Blue, Green, Red, White, or Yellow (Light)
- Gray (Flashing Light)
- Purple (Horn)
- Purple (Horn)
- Black (Steady on)
- Brown (Power)

**Using External Power Supply (PDA1024-01)**

- Connecting the light color and gray wire makes light flash
- Connecting the light color and black wire makes light steady on

- Blue, Green, Red, White, or Yellow (Light)
- Gray (Flashing Light)
- Purple (Horn)
- Purple (Horn)
- Black (Steady on)
- Brown (Power)

- PDA1024
  - 24 V External Power Supply

**MOD-LHX2 HOLE LOCATIONS**

When MOD-LHX2 is ordered with an enclosure, the enclosure comes pre-drilled with holes for Light / Horn and Reset Button.

**Light / Horn**
The Light / Horn hole is on the top, back left corner of the enclosure.

**Reset Button**
The Reset Button is centered on the cover of the enclosure below the meter about an inch off the bottom of the cover except on the PDA3400 series where it is mounted on the side of the enclosure.
WIRING CONNECTIONS FOR MOD-LH5CB1-X2

Using Trident X2's Internal Power Supply

Using External Power Supply (PDA1024-01)
MOD-LHX2 Series  Light / Horn Accessory for Trident X2 Meters

AVAILABLE FOR THESE ENCLOSURES

PDA2300  
Economical Plastic NEMA 4X Enclosures  
The MOD-LHX2 Series is available on all PDA2300 Series Enclosures.

PDA2500  
Rugged Plastic NEMA 4X Enclosures  
The MOD-LHX2 Series is available on all PDA2500 Series Enclosures.

PDA2600  
Stainless Steel NEMA 4X Enclosures  
The MOD-LHX2 Series is available on all PDA2600 Series Enclosures.

PDA2700  
Steel NEMA 4 Enclosures  
The MOD-LHX2 Series is available on all PDA2700 Series Enclosures.

PDA2800  
Smallest Footprint Plastic NEMA 4X Enclosures  
The MOD-LHX2 Series is available on all PDA2800 Series Enclosures except PDA2801 and PDA2812.

PDA3400  
Internally Mounted Plastic NEMA 4X Enclosures  
The MOD-LHX2 Series is available on all PDA3400 Series Enclosures except the PDA3411, PDA3412, PDA3414.

Enclosures shown with a Trident X2 Meter and MOD-LHRB1-X2 Red Light / Horn and Reset Button.
*Meter, Enclosure, and MOD-LHRB1-X2 are Sold Separately. Assembly Required.*

RESET BUTTON LABELS

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

Recommended for these Models: Trident X2 only.
Light Colors: MOD-LHX2 Models: Red, green, yellow, blue or white. MOD-LH5CB1-X2: User selectable: red, green, yellow, blue, or white.
Light Action: Can be wired to flash (not available on MOD-LH5CB1-X2) or stay steady on Light / Horn & Reset Button Installation: When MOD-LHX2 is ordered with an enclosure, the user performs installation and wiring of Light / Horn and Reset Button in pre-drilled holes.
Horn: 85 dB
Rating: IP 65
Light / Horn Independence: Light and horn can be controlled via separate relays
Power Requirement: No additional power required when wired to a Trident X2 meter. When mounted remote: 24 VDC
Transmitter Power Supply: The Trident X2’s internal transmitter power supply is capable of supplying 200 mA to power the transmitter and other devices such as the Light / Horn. The following table illustrates how much of this power is required to drive various Light / Horns. If more power is needed, then consider the PDA1024-01.

MOD-LHX2 and MOD-LH5CB1-X2 Models:

<table>
<thead>
<tr>
<th>Color</th>
<th>Power Required</th>
<th>Color</th>
<th>Power Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>17 mA</td>
<td>Blue</td>
<td>15 mA</td>
</tr>
<tr>
<td>Green</td>
<td>15 mA</td>
<td>White</td>
<td>42 mA</td>
</tr>
<tr>
<td>Yellow</td>
<td>23 mA</td>
<td>Horn</td>
<td>20 mA</td>
</tr>
</tbody>
</table>

Example: 17 mA (Red Light) + 20 mA (Horn) = 37 mA total current needed from the 200 mA supply. Available current = 163 mA

Reset / Silence Button: NEMA 4X; may be wired to the digital input terminal on Trident X2. The Reset front panel button can be used to reset relays.

Reset Button Labels: The Light / Horn accessory comes with 9 pre-printed message labels the user can affix under the red button: RESET, BATCH, ACK, TARE, SILENCE, STOP, START, PAUSE, START/STOP.

Light / Horn Mounting Connection: M22

Hole Sizes: Light / Horn: 0.875” (22 mm); Reset Button: 0.630” (16 mm)

Cable Length: 3.28 feet (1 meter)

Operating Temperature Range: -40 to 40°C (-40 to 104°F)

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

ORDERING INFORMATION

Model | Description
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MOD-LHRB1-X2 | Red Light / Horn and Reset Button with Holes Drilled in Enclosure(1)
MOD-LHGB1-X2 | Green Light / Horn and Reset Button with Holes Drilled in Enclosure(1)
MOD-LHYB1-X2 | Yellow Light / Horn and Reset Button with Holes Drilled in Enclosure(1)
MOD-LHBB1-X2 | Blue Light / Horn and Reset Button with Holes Drilled in Enclosure(1)
MOD-LHWB1-X2 | White Light / Horn and Reset Button with Holes Drilled in Enclosure(1)
MOD-LH5C1-X2 | Light / Horn with User Choice of Red, Green, Yellow, Blue or White Light

Notes
1. This MOD supplies the Light / Horn and Reset Button. The enclosure comes pre-drilled with holes for Light / Horn and Reset Button and the user performs the installation and wiring. 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 cover of the enclosure below the meter about an inch off the bottom of the cover except on the PDA3400 series where it is mounted on the side of the enclosure.
2. Specify PDA-LH model to order the Light / Horn to be mounted by the user in user-drilled hole.
3. Specify PDA-BUTTON model to order Reset Button to be mounted by the user in user-drilled hole.

ORDERING EXAMPLE

Order meter, enclosure, and MOD-LHX2 as separate items:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Trident Meter with 2 Relays</td>
</tr>
<tr>
<td>2</td>
<td>NEMA 4 or NEMA 4X Enclosure that Accepts MOD-LHX2</td>
</tr>
<tr>
<td>3</td>
<td>MOD-LHX2 Light / Horn and Reset Button with Holes Drilled in Enclosure</td>
</tr>
</tbody>
</table>

User performs the installation and wiring.