PowerCommand®
Remote Annunciator Panel
(LonWorks System annunciator)

Description

The PowerCommand® Network Annunciator is a network component that provides remote system status indication for emergency and other power systems in compliance to the requirements of NFPA 110. The network annunciator may also be used for remote indication of any condition that is monitored by a PowerCommand Network.

The Network Annunciator reduces installation costs and improves design flexibility by use of a PowerCommand Network to transmit all the genset and transfer switch system signals rather than using relay contacts for this purpose.

Control power for PowerCommand Network products is usually derived from the genset starting batteries. The control functions over a voltage range from 8 VDC to 35 VDC.

Features

- Visual indication of 20 network conditions and network status.
- Audible indication of any network condition - Annunciator also includes pushbutton switch to silence the audible alarm. Alarm horn sound level is approximately 90 dB(A) at 30 cm.
- Standard NFPA 110 label, field configurable for other alarm and status conditions.
- Configurable for compliance to NFPA 99 requirements.
- Sealed membrane panel design provides environmental protection for internal components and is easy to clean.
- Warranty - PowerCommand Controls are supported by a worldwide network of independent distributors who provide parts, service and warranty support.
- UL Listed and labeled; CSA certified; CE marked.
- Wall mount NEMA 1 enclosure or flush mount configurations available.
Specifications

Signal requirements

**Network connections:** Echelon® LonWorks®, twisted-pair 78 kbps, FT-10.

**Control power:** 8-30 VDC, 3.5 W (maximum) 0.8 W typical.

Wiring materials for network signals are UL Listed 4 twisted pair wiring. Terminations for control power accept wire up to 16 ga.

Environment

The annunciator is designed for proper operation in ambient temperatures from -40 °C to +70 °C (-40 °F to +158 °F) and for storage from -40 °C to +80 °C (-40 °F to +176 °F). Control will operate with humidity up to 95%, non-condensing and at altitudes up to 5000 m (13,000 ft).

Maximum wire lengths - control power-self-binding system

<table>
<thead>
<tr>
<th>Wire size</th>
<th>12 VDC</th>
<th>24 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 ga</td>
<td>100 m (330 ft)</td>
<td>338 m (1100 ft)</td>
</tr>
<tr>
<td>20 ga</td>
<td>158 m (520 ft)</td>
<td>537 m (1760 ft)</td>
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<tr>
<td>18 ga</td>
<td>250 m (820 ft)</td>
<td>852 m (2790 ft)</td>
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<tr>
<td>16 ga</td>
<td>398 m (1300 ft)</td>
<td>1352 m (4430 ft)</td>
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<tr>
<td>14 ga</td>
<td>631 m (2070 ft)</td>
<td>1400 m (4600 ft)</td>
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Dimensions

**Annunciator enclosure**

Dimensions: in (mm)

- Width: 5.25" (133 mm)
- Height: 3.25" (83 mm)
- Depth: 3.00" (76 mm)

**Cut out detail (without enclosure)**

- Width: 4.50" (114 mm)
- Height: 3.75" (96 mm)
- Depth: 3.00" (76 mm)

- Dimensions: in (mm)

Alarm Horn

**Sound Level:** 90 dB(A) at 30 cm

Physical

**Weight:** 1.45 kg (3.2 lbs) (board plus enclosure)

Power

**Maximum Consumption:** 5 W

**Standby Consumption:** 0.4 W or less

**Network Length:** Maximum 1400 m (4600 ft), when using NEMA Level 4 cable

Self-binding configurations - Supports use of up to four annunciators with up to one genset and one transfer switch.

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S-1343e (9/07)
Label configurations & standard bindings

NFPA 110 genset alarm and status annunciator

The following conditions are provided as standard on the annunciator:

- High battery voltage (A)
- Low battery voltage (A)
- Genset running (G)
- Genset supplying load (G)
- Pre-low oil pressure (A)
- Low oil pressure (R)

(A) = Amber; (R) = Red; (G) = Green

Extended genset alarm and status annunciator

The following conditions are provided as standard on the annunciator:

- Check genset (R)
- Ground fault (A)
- High AC voltage (R)
- Low AC voltage (R)
- Under frequency (R)
- Overload (R)

(A) = Amber; (R) = Red; (G) = Green

8-Point (genset)

The following conditions are provided as standard on the annunciator:

- Check genset (A)
- Genset running (G)

(A) = Amber; (R) = Red; (G) = Green

4-Point (genset)

The following conditions are provided as standard on the annunciator:

- Check genset (A)
- Genset running (G)

(A) = Amber; (R) = Red; (G) = Green

ATS-extended

This annunciation set is often used with PLT-series equipment. The following conditions are provided as standard on the annunciator:

- Source 1 available (G)
- Source 2 available (G)
- Source 1 connected (G)
- Source 2 connected (G)
- Check ATS (R)

(A) = Amber; (R) = Red; (G) = Green

ATS 8-point

The following conditions are provided as standard on the annunciator:

- Source 1 available (G)
- Source 2 available (G)
- Source 1 connected (G)

(A) = Amber; (R) = Red; (G) = Green

ATS 4-point

The following conditions are provided as standard on the annunciator:

- Source 1 available (G)
- Source 2 available (G)

(A) = Amber; (R) = Red; (G) = Green

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Custom alarm configuration

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<tr>
<th>#</th>
<th>Color (R/Y/G)</th>
<th>Label</th>
<th>Horn (Y/N)</th>
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<th>Color (R/Y/G)</th>
<th>Label</th>
<th>Horn (Y/N)</th>
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Ordering information

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<tr>
<th>Part number</th>
<th>Description</th>
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<td>0541-0814-01</td>
<td>Network annunciator, open construction, for panel mounting</td>
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<tr>
<td>0541-0814-02</td>
<td>Network annunciator including control box for surface wall mounting</td>
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See your distributor for more information.