SUPPLEMENTAL POWER SUPPLY

DESCRIPTION
The Supplemental Power Supply (SPS), P/N 10-2474-1 or -2, mounts onto the Cheetah® Xi or CyberCat® 1016 controller (header P16) and adds 2 A external standby power and 6 A alarm power to the system; thus increasing the total system power output to 4 A standby and 12 A alarm. The SPS circuit board provides three auxiliary power output circuits, battery charging circuit, and dedicated AC power connection. A 120 or 240 V AC power transformer is shipped with the SPS and is mounted within the control panel enclosure onto the press studs located in the backbox.

FEATURES
AC Power
- Power transformer (P21): 120 VAC, 60Hz, 2.6 A; or 240 VAC, 50/60Hz, 1.5 A
- 16 AWG THHN wiring minimum
- 15 A replaceable fuse (F1) for AC overload protection
- Non-power-limited and supervised
- Removable terminal block

Battery Charging Circuit
- Sealed lead acid batteries only (P21)
- Rated for 75 amp-hour maximum charging capacity
- 4 A @ 27 VDC maximum charge current
- 12 A @ 27 VDC maximum supply current
- Shares a common power bus with the main controller, allowing standby battery power to be distributed between them
- 15 A replaceable fuse (F2) provides battery with current limiting, short circuit, and overload protection
- Can be disabled if batteries are not connected
- Non-power-limited and supervised
- Removable terminal block

Auxiliary Power Circuits
- Three continuous, regulated auxiliary power outputs (P22)
- Rated 2 A @ 24-28 VDC maximum
- 4 A replaceable fuse (F3/F4/F5) provides short circuit and overload protection
- Power-limited and supervised
- Removable terminal block

Installation Note: Secondary batteries connected to the SPS must be mounted in an external battery enclosure: 33 AH or 75 AH. Wire connection between batteries and the SPS board must be made using 14 AWG wire, maximum 10 feet (3 m) long.

SPECIFICATIONS
Standby Current: 4 mA
Alarm Current: 40 mA
Input Voltage: 120 VAC, 60Hz, 2.6 A
- 240 VAC, 50/60Hz, 1.5 A
- 250 VA
Circuit Board Dimensions: 4-1/2” L x 5-1/2” H x 2” D (11.43 cm x 13.97 cm x 5.08 cm)
Circuit Board Weight: 0.66 lbs (299 grams)
Transformer Dimensions: 5” L x 3-3/4” H x 3-1/2” D (12.7 cm x 9.5 cm x 8.9 cm)
Transformer Weight: 7 lbs (3.18 kg)
Compatibility: The SPS is compatible with Fike’s CyberCat® 1016 Fire Alarm and the Cheetah® Xi 1016 Fire Suppression control panels
Operating Temp: 32°F to 120°F (0°C to 49°C)
Operating Humidity: 93% RH, non-condensing
### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Fike P/N</th>
<th>Description</th>
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<tbody>
<tr>
<td>10-2474</td>
<td>SPS Circuit Board only</td>
</tr>
<tr>
<td>02-10881</td>
<td>Transformer, 120VAC (included with 10-2474-1)</td>
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<tr>
<td>02-10882</td>
<td>Transformer, 240VAC (included with 10-2474-2)</td>
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<tr>
<td>02-11127</td>
<td>Terminal Block, 4 position for P21</td>
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<tr>
<td>02-10996</td>
<td>Terminal Block, 9 position for P22</td>
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<tr>
<td>02-4174</td>
<td>Fuse, 15 Amp, Mini Auto, Fast Acting (2 required)</td>
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<tr>
<td>02-11412</td>
<td>Fuse, 4 Amp, Mini Auto, Fast Acting (3 required)</td>
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<tr>
<td>02-2715</td>
<td>Standoff, 0.625 M/F (4 required)</td>
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<tr>
<td>02-1589</td>
<td>Screw, 6-32 x 0.375 Phillips (4 required)</td>
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<tr>
<td>02-1361</td>
<td>Hex Nut, #6-32 (4 required)</td>
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<tr>
<td>4153-142</td>
<td>Lock Washer, #6 (8 required)</td>
</tr>
</tbody>
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### TERMINAL ASSIGNMENTS

![Terminal Assignments Diagram](image-url)