

## 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



### APPROVALS:

- UL - S2203
- FM
- CSFM - 7165-0900:0137 (CyberCat)  
7165-0900:0149 (Cheetah Xi)
- City of Denver
- City of Chicago
- City of New York - #6119



## ORDERING INFORMATION

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

## TERMINAL ASSIGNMENTS

