

# Fire Sentry FS System 10 SPECIFICATIONS

## Process Control Flame Detection System



Wall-Mount Controller	
<b>Enclosure</b>	NEMA 12 painted steel gasketed enclosure with welded seams. Enclosure is keyed lock.
<b>Size and Weight</b>	12.79 inches wide, 16.25 inches high, 3.56 inches deep, 15 pounds (approx.)
<b>Display &amp; Indicators</b>	Normal - Green LED; FAULT - Yellow LED; ALERT/FEW - Orange LED; ALARM - Red LED; 24 characters per line, two line, backlit LCD display for Status and Diagnostics
<b>Power Consumption</b>	Normal: 85 mA (typical); Alarm: 120 mA (typical)
<b>Temperature Range</b>	Operating: 32° to 122°F (0° to 50°C); Storage: -4° to 158°F (-20° to 70°C)
<b>Power Requirements</b>	Option 1S-120-GF: 120 Vdc nominal; ±10%, 0.22 amps (25 watts) nominal Option 1S-240-GF: 240 Vdc nominal; ±10%, 0.11 amps (25 watts) nominal
<b>FirePic™</b>	6 total, each 8 seconds duration
<b>Number of Detectors</b>	1 or 2 detectors per controller
Card Controller	
<b>Enclosure</b>	NEMA 1 steel enclosure
<b>Indicators</b>	Four (4) status LED's for NORMAL OPERATION, ALERT, FIRE EARLY WARNING (FEW), FIRE ALARM, and Fault conditions.
<b>Input Power</b>	24 volt DC (+10/-15%)
<b>Power Consumption</b>	65 milliamps, at 1.6 watts nominal.
<b>Output Signal Relays</b>	2FL: ALERT/FEW NO, ALERT/FEW NC, FIRE ALARM NC, FAULT NC/NO 2GF: ALERT/FEW NC, FIRE ALARM NO, Minor FAULT NC, Major FAULT NC/NO 2WE: ALERT/FEW NO, FIRE ALARM NO, Minor FAULT NO, Major FAULT NC/NO 2WL: ALERT/FEW NO, ALERT/FEW NC, FIRE ALARM NO, FAULT NC/NO
<b>Relay Contact Ratings</b>	1 amp @ 24 VDC
<b>Operating Temperature</b>	+32° to +122°F (0° to +50°C)
<b>FirePic™</b>	6 total, each 8 seconds duration
Detector	
<b>Sensitivity</b>	Standard sensitivity 15 ft. Optional 30 ft. or 45 ft. sensitivity available. Please specify when ordering.
<b>Response Time</b>	Alert: 0.3 second (response to "fireball" type fires) Fire Early Warning: 0.5 second (early response to a fire alarm) Fire Alarm: 4 seconds (if fire continues)
<b>Field of View</b>	90° (±45° horizontal and vertical)
<b>Weight</b>	Aluminum: 3.8 lbs (1.7 kg)
<b>Operating Temperature</b>	-40° to 185°F (-40° to 85°C)
<b>Humidity Range</b>	5 to 95% RH, non-condensing
<b>Enclosure</b>	Copper-Free Powder Coated Aluminum or optional 316 Stainless Steel; NEMA 3, 4 and 4X
<b>Certifications</b>	Explosion-Proof; Class I, Div. 1 & 2, Groups B, C, & D Class II, Div. 1 & 2, Groups E, F, & G Class III FM, CE
<b>Spectral Sensitivity</b>	Visible: 400 – 700 nanometers Near Band IR: 0.7 – 1.1 microns Wide Band IR: 0.7 – 3.5 microns
<b>Conduit Entries</b>	Two ¾" NPT
<b>Dimensions</b>	4.81 in. diameter; 4.65 in. deep
<b>Mounting</b>	Swivel Bracket Assembly - Optional
<b>Warranty</b>	Two years from date of shipping