FAAST™:
Aspiration Smoke Detection for Very Early Warning Protection

The FAAST Fire Alarm Aspiration Sensing Technology 8100 aspirating smoke detector from System Sensor provides highly accurate, Very Early Warning Fire Detection to protect mission-critical facilities and high-value assets from even the slightest traces of smoke.

With FAAST's unique dual vision sensing technology, a blue LED is used to detect extremely low concentrations of smoke while an infrared laser is used to identify nuisance particulates. Advanced detection algorithms interpret signals from both sources to reject common nuisance conditions and accurately detect incipient fire conditions long before a fire actually starts.

As an aspirating system, FAAST draws air samples into its sensor through a pipe network. Dual flow detection includes both ultrasonic and electronic sensing for pipe and chamber air flow measurement. Detection is as precise as 0.00046%/ft. obscuration. A patented particle separator and field-replaceable filter remove contaminants from the system. A single device protects up to 8,000 square feet.

For initial system creation, the PipeIQ™ software, included on a CD with the FAAST device or as a download from the System Sensor Web site, provides intuitive system layout, configuration and monitoring all in one package. FAAST provides an onboard Ethernet port for easy connection to a computer, network, mobile phone and the Internet for remote monitoring and e-mail status updates.

FAAST is the solution for a full detection strategy with its advanced communications capabilities and extensive range of customizable settings. The detector provides five alarm levels that can be programmed for latching or non-latching relays. Alarm delays can be set anywhere between 0 to 60 seconds to accommodate specific codes or environments.

FAAST also supports two sensitivity modes: In Acclimate™ mode, the detector automatically adjusts itself to current environmental conditions to reduce nuisance alarms. The Day/Night/Weekend mode enables technicians to preset alarm thresholds based on routine changes in the environment.

8100 FAAST™ Fire Alarm Aspiration Sensing Technology

Electrical Characteristics

External Supply Voltage:	18 – 30VDC
Remote Reset Time External:	Monitor must be pulled low for a minimum of 100 msec.
Power Reset:	1 sec.
Average Operating Current:	500 mA @ 24 VDC
Relay Contact Ratings:	3.0 A @ 30 VDC, 0.5 A @ 125 VAC

Environmental Ratings

Operating Temperature:	32°F (0°C) to 100°F (38°C)
Sampled Air Temperature:	-4°F (-20°C) to 140°F (60°C)
Humidity:	10 to 95% (non-condensing)
IP Rating:	IP30
Coverage Area:	8,000 sq.ft. (743.2 sq. m)
Air Movement:	0 – 4,000 ft/min. (0-1,219.2 m/min.)