

Application: **Data Centers**

Smoke Detection in Data Centers

Server rooms are home to expensive equipment and even more valuable business processes and data. Every second lost, every transaction missed and every byte of data destroyed can mean significant financial losses.

The potential for smoke and fire is heightened in data facilities as the electrical equipment they contain creates a high heat density environment. Air conditioning devices, used to control the temperature, create a high air flow and air filters used by the AC units can remove smoke particulate, making detecting smoke in a data centers extremely challenging.

In order to fully protect a data center from smoke and fire damage, a system capable of achieving Very Early Warning Fire Detection is a must.

FAAST in Data Centers

With a listed sensitivity of up to 0.00046%/ft obscuration, FAAST Fire Alarm Aspiration Sensing Technology is capable of providing Very Early Warning Smoke Detection to data facilities. This level of sensitivity, along with FAAST's five fully customizable alarm levels, enables a strategic response plan so appropriate personnel can address incipient fire conditions before costly damage can occur. In addition, FAAST's unique Dual Vision sensing technology and advanced particle separation discriminate nuisance particulate from actual smoke, eliminating costly downtime caused by false alarms.

FAAST overcomes the challenges of protecting data centers by actively sampling air through its network of pipes, which can be run above the ceiling; under the floor; in-between, in, and above server racks and cabinets; and across the intake of the return air duct of an air handling unit – anywhere smoke might travel.

FAAST is also capable of actively notifying facilities managers at the first sign of trouble via its integral e-mail client. Using PipeIQ, FAAST's all-in-one design, configure, and monitor software, FAAST can be programmed to e-mail up to six users when set alarm thresholds are met. PipeIQ also allows users to design a pipe network, configure FAAST devices – including for Very Early Warning and Early Warning detection – and monitor their FAAST system. Using the onboard Ethernet connection, FAAST can be monitored anywhere in the facility via a Local Area Network (LAN) or anywhere in the world using a Web browser and a VPN-capable device.

Combining Very Early Warning Fire Detection, active trouble notification, and advanced nuisance alarm rejection, FAAST is a data center's first line of defense against downtime and damage caused by smoke and fire.



FAAST
FIRE ALARM ASPIRATION SENSING TECHNOLOGY®

