



Fire Detection
**DISTRIBUTED
TEMPERATURE SENSOR**

fotas.samm.com

Fire Detection Specifications

Range per channel	2km	4km	8km	10km
Number of channels	1/2/4	1/2/4	1/2/4	1/2/4

Data Acquisition

Measuring time	generally ~5 seconds for linear heat applications (EN54-22)			
Sampling Interval	1m			
Temperature Resolution	0.1°C@10s, 2km	0.1°C@10s, 4km	0.3°C@10s, 8km	0.3°C@10s, 10km
Temperature Accuracy	±1°C			
Fiber Break Alarm	Automatic detection, accuracy within < ±5m			
Measurement Temperature	-220 to +800 °C (*1)			

Optical

Laser Wavelength	1550 nm
Optical Budget	10 dB
Connector Type	E2000
Cable type	Multi mode 62.5/125
Laser Safety Classification	Class 1

Electrical and Hardware Interfaces

Supply Voltage	24VDC
Power Consumption	85W (max)
Relays	Yes - 48 NO/NC relays
Modbus	MODBUS TCP / MODBUS RTU
RJ45	1 x 100Mbps
Serial	1x RS-485 - 1x RS-232
USB	1x USB
Other	7.0-inch touch screen, 1024*600-pixel
Internal Storage	> 500,000 measurements @10km

Physical Properties

Rack Height	3U
Dimensions (W * H * D)	485 x 133 x 509 mm
Net Weight	10 kg
IP Rating	IP40
Material	Painted Galvanized Steel
Colour/Finish	Matt Black
Shipping Dimensions	550 x 330 x 530 mm
Shipping Weight	12 kg

Environmental Properties

Operating Temperature	-10°C to +55°C
Operating Humidity	0 to 95%RH
Storage Temperature	-10°C to +85°C
Storage Humidity	0 to 95% Relative Humidity, Non-condensing

Software

Software Name	FOTAS Web
Alarm Types	Max & Min, Rate of Rise and Deviation
Max. Zones	1000

*1 : Depends on the temperature range of the optical fiber sensor