

## DESCRIPTION

**CALSENS offers single mode fiber (SMF) Fiber Bragg Grating (FBG) sensors prepared to measure and operate in environments of high temperature up to 1200°C.** Offered in different configurations (single sensor, array with custom FBG separation) and with different coatings and protections depending on the user needs and demands. We can help with the design and configuration to assist for a wide number of applications. Manufactured using proprietary know-how, the sensors provide excellent wavelength accuracy and stability for its use with any interrogator in the market.

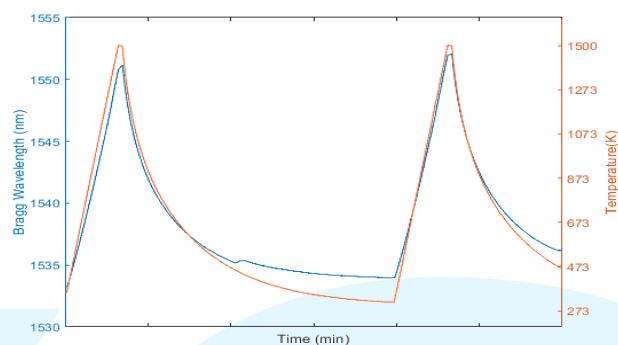


## KEY FEATURES

- Designed for temperatures up to 1200°C
- Available as a single sensor or in a configurable array
- Multiple possible coating and protective jackets available
- Long-life reliable wavelength response
- Arrays with custom FBG spacing

## APPLICATIONS

- Industrial & Chemical process monitorization
- Early fire and heat alarm
- Oil & Gas transport and combustion
- Hostile environment measurements



### Optical Parameters

Wavelength	1460-1620 (others available on demand)	nm
Fabrication Tolerance	+/- 0.5	nm
Reflection bandwidth (FWHM)	0.1 – 2.0	nm
Reflectivity	>40 (custom values available)	%
SLSR	>10 (other values available)	dB

### Physical Parameters

FBG Length	5-10 (custom values available)	mm
Maximum Temperature	1200*	°C
Fiber Pigtail Length	1 (other values available)	m
Fiber Type	SMF G.652 (custom options available)	
Optical Connector	FC/APC (custom options)	
Fiber protection options	Naked Fiber, polyimide, Steel, Ceramic (custom options)	

\*1200°C Temperature only available for some fiber protection options  
Single sensor and array configurations (with custom number of FBG and separation) available