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Gas Transmission Infrared Fiber Optic Probe for Gases



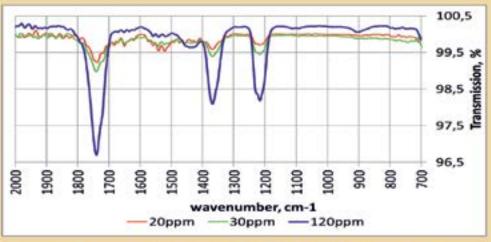


FlexiSpec® product line includes the latest generation of Transmission infrared fiber optic probes for gases to be used with any spectrometer or photometer. The design of Transmission Fiber Probe for gases is based on a bifurcated fiber bundle.

Due to low Mid IR-attenuation in gases the collimated beam design of double pass (or multiple pass) gas cell is needed to increase optical path length to 10 – 40cm. This design is easily realized by the mean of the collimating objective and reflecting mirror cell.

Applications:

- Reaction investigation and monitoring in real time
- Analytical Characterization
- Exhaust gases monitoring
- Solvent vaporization monitoring
- Associated petroleum gas monitoring



Acetone vapor spectra in 100mm double-pass cell

Specification of Gas	Transmission Fiber	Optic Probes Fle	xiSpec®
Probe type	Transmission in double-pass gas cell		
Transmission range	0,5 - 2,2 μm	1,6 – 5,5 μm	3 – 18µm
Fiber type	Silica	Chalcogenide IR	Polycrystalline IR
Temperature range	-50°C + 200°C	-50°C + 90°C	-50°C + 140°C
Sensitivity	>1ppm depending on optical path, spectrometer performance, gases in test		

Total Length	1,5 m (opt: 1 – 30m) *	
Transmission Cell Length	100mm (opt: 5 – 200mm) *	
Fransmission cell Diameter	25 mm	
Shaft Material	Stainless Steel, Hastelloy C22	
Protective Tube Material	Liquid Tight SS-Conduit, KOPEX-Tube	
Input / Output Connectors	Long SMA *	

