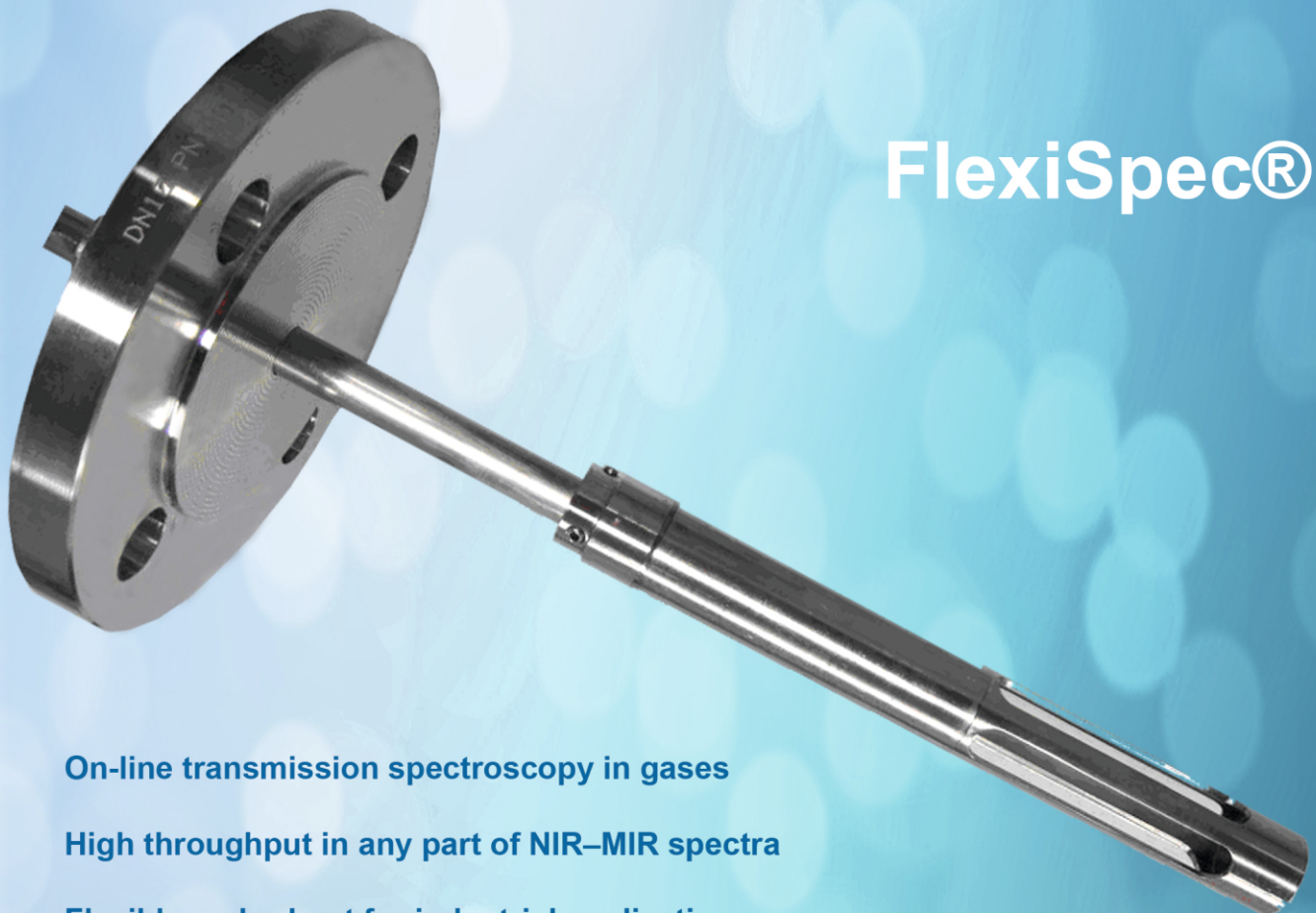


Gas Transmission Infrared Fiber Optic Probe for Gases



art photonics



FlexiSpec®

On-line transmission spectroscopy in gases

High throughput in any part of NIR–MIR spectra

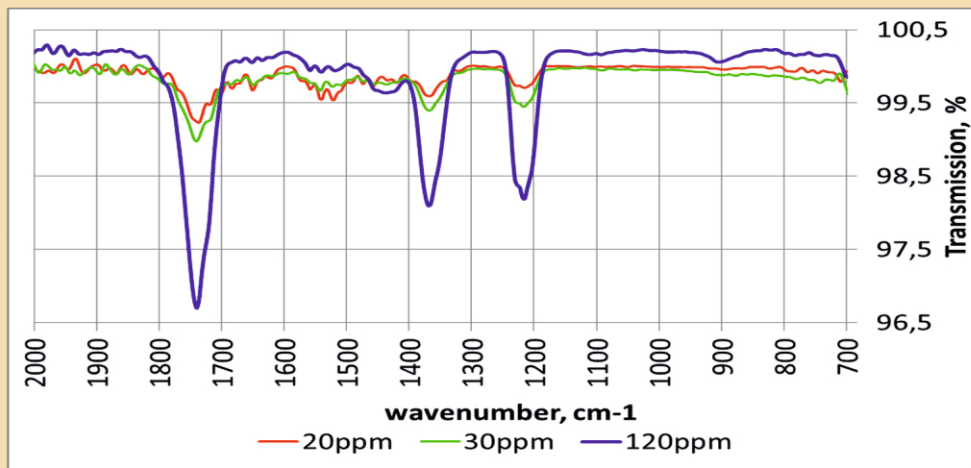
Flexible and robust for industrial applications

Compatible with any spectrometer.

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

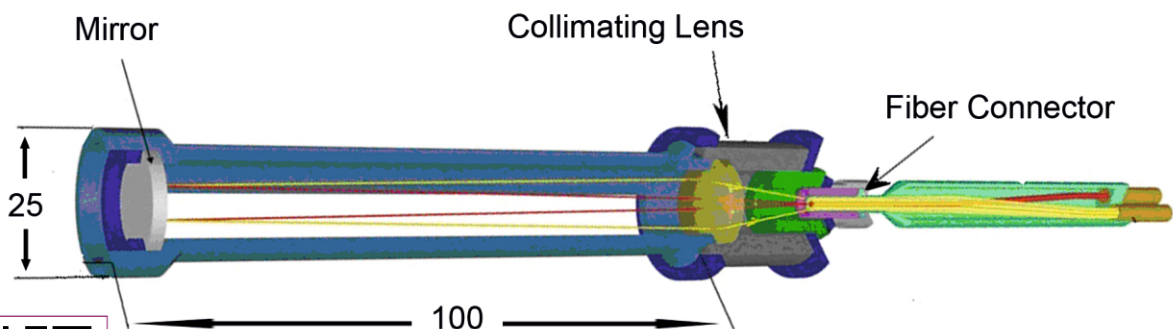
Specification of Gas Transmission Fiber Optic Probes FlexiSpec®

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		

Common Parameters of Gas Transmission Fiber Optic Probes FlexiSpec®

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

*Customized dimensions are available on request



Download PDF via smartphone

art photonics GmbH
Rudower Chaussee 64
12489 Berlin Germany

Phone + 49 (0) 30 6789 4153
sales@artphotonics.com
www.artphotonics.com

QAS Int. - certified
DIN EN ISO 9001:2008
Zertifikat Nr. A1887GER

