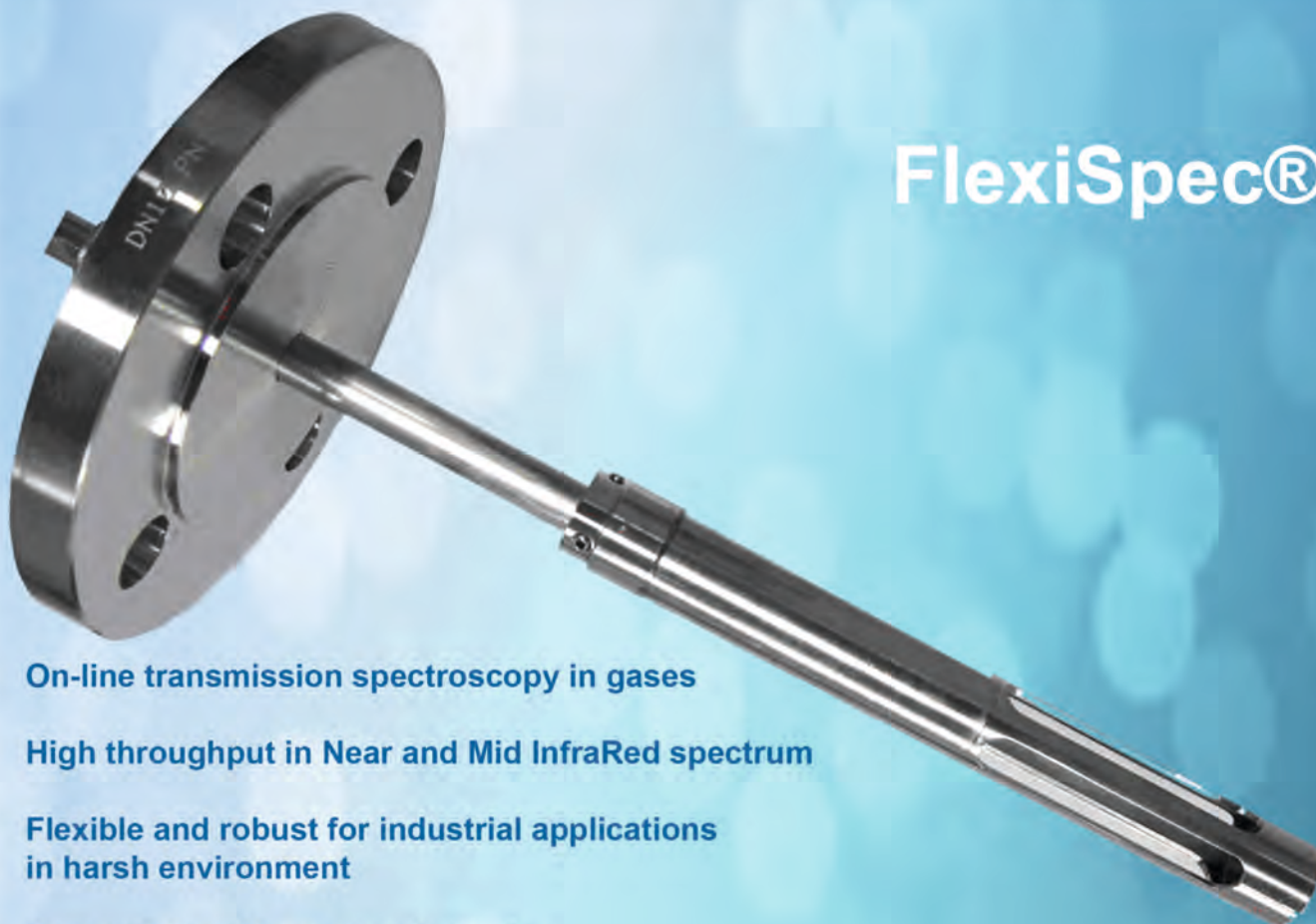


Transmission Infrared Fiber Optic Probe for Gases



art photonics

FlexiSpec®



On-line transmission spectroscopy in gases

High throughput in Near and Mid InfraRed spectrum

Flexible and robust for industrial applications
in harsh environment

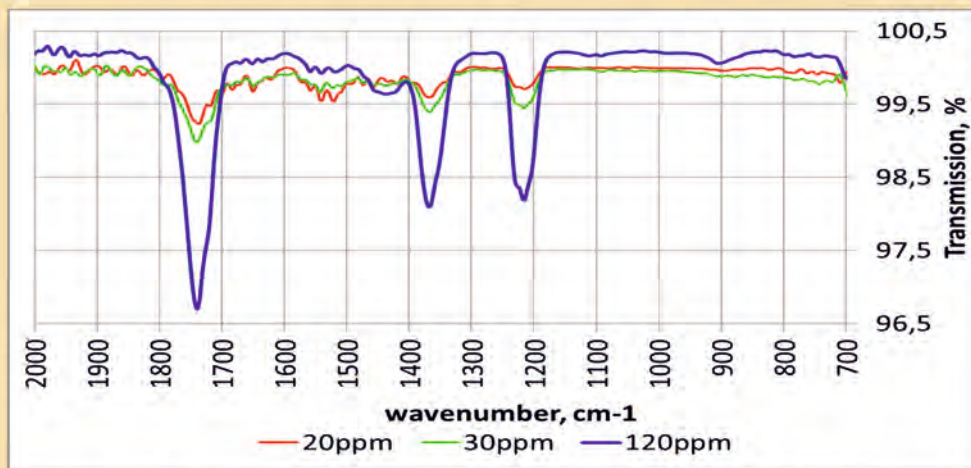
Compatible with any spectrometer.

Double path gas cell with collimating lens and mirror enables to
modify optical path in accordance with application requirements

FlexiSpec® product line includes the latest generation of Transmission infrared fiber optic probes for gases to be used with any spectrometer or photometer.

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-path cell

Specification of Gas Transmission Fiber Optic Probes FlexiSpec®

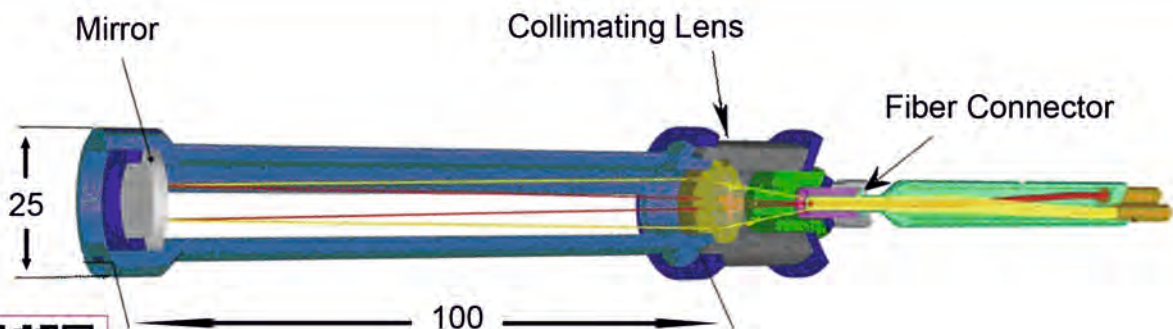
Probe type	Transmission in double-path gas cell		
Transmission range	1,5 - 2,2 μm	1,1 – 5,5 μm	4 – 18 μm
Fiber type	Silica Near-IR	Chalcogenide IR	Polycrystalline IR
Temperature range	-50°C+200°C	-50°C+100°C	-50°C+140°C
Sensitivity	>1ppm depending on optical path, spectrometer performance, gases in test		

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



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