Fiber Optic ATR-Probes

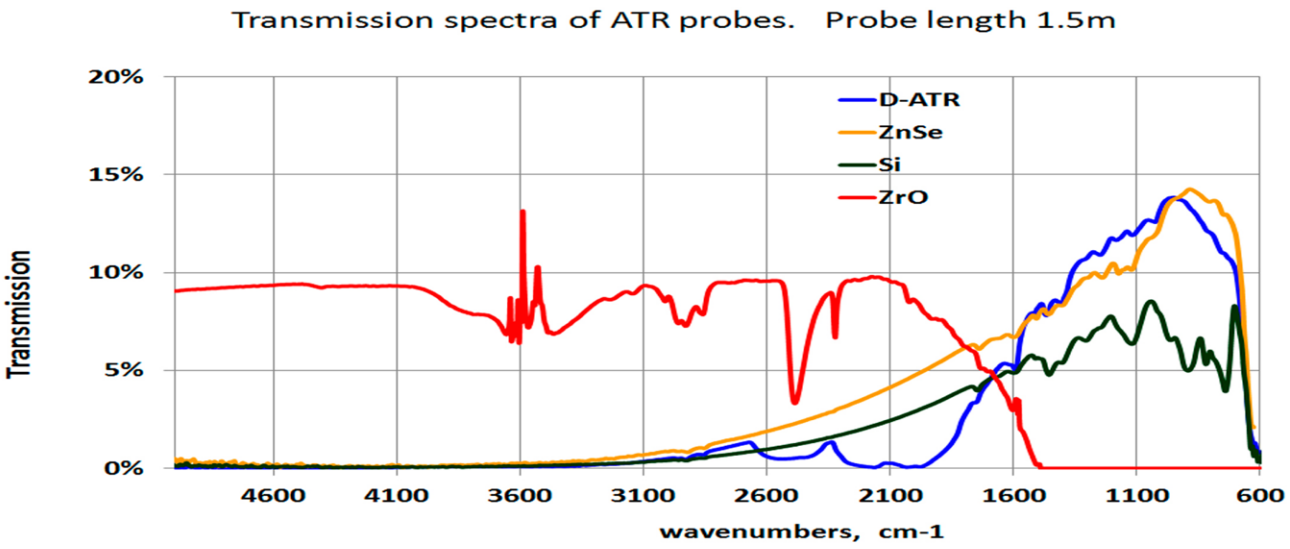
art photonics



FlexiSpec® product line from **art photonics** is the latest generation of Attenuated Total Reflection Near & Mid IR-fiber ATR-Probes produced for any type of FT-NIR, FT-IR and other IR-spectrometers, photometers and IR-LED or QCL spectral sensors.
ATR immersion fiber optic probes with patented design are suitable for reaction monitoring in lab, pilot plant and for full automated process control.

Applications:

- Reaction Monitoring in real time
- Process Analytical Technologies (PAT)
- Remote Polymerization Control
- Crystallization Process Screening
- In-situ IR-Spectroscopy for PAT in Chemical, Petrochemical, Atomic, Biopharmaceutical & Food Industry



Specification of Fiber Optic Immersion ATR-Probes *FlexiSpec*®

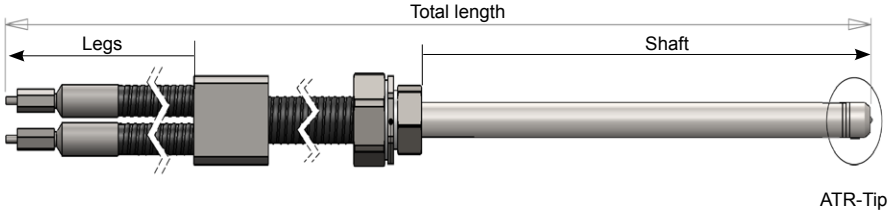
Probe type	**Diamond ATR**	**ZnSe ATR**	**Silicon ATR**	**Cubic Zirconium ATR**
Transmission range	5.2-17µm (600-1900cm $^{-1}$)	3.2-17µm (600-3100cm $^{-1}$)	3.2-17µm (600-3100cm $^{-1}$)	1.1-6.5µm (650-9000cm $^{-1}$)
Fiber type	PIR-900/1000	PIR-900/1000	PIR-900/1000	CIR-500/550
Temperature range	-150°C / + 140°C	-150°C / + 140°C	-150°C / + 140°C	-150°C / + 90°C
Pressure (max)	200Bar, 300 Bar on request	10Bar	100Bar	100Bar

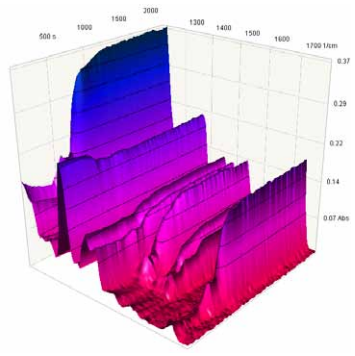
Common Parameters of Fiber Optic ATR-Probes *FlexiSpec*®

Total Length	1.5m (opt.: 1m to 5m)*
Shaft Length	300mm (opt.: 100mm to 700mm)*
Shaft Diameter	12mm, 6.3mm (opt.: 3mm)*
Shaft Material	Hastelloy C22
Length of Legs	500mm (opt.: 200mm to 500mm)
Protective Tube Material	Liquid Tight SS-Conduit, KOPEX-Tube
Minimal Bending Radius	130mm
Input / Output Connectors	Long SMA (opt.: any other type)
Compatible Process-Interfaces	Ceramat-FOS** or SensoGate-FOS**



*Customized dimensions are available on request **Available for 12mm shafts only on request





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