



Electro Optical Components, Inc.

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Fiber Optic Transmission Probe



Sapphire optics

**In-line transmission spectroscopy
in liquids at long distance**

**High throughput in any part of UV-Vis
to NIR spectra**

**Flexible and robust for industrial
applications in harsh environment**

**Compatible with all spectrometers
and process-interfaces**



FlexiSpec®

The **FlexiSpec®** product line features advanced Transmission fiber optic probes for UV-Vis and Vis-NIR spectral analysis, compatible with various spectrometers and photometers. Customized options include durable Stainless steel or Hastelloy C22 shafts with flanges and heating or air cooling to work in harsh industrial environment.

Applications:

- Reaction monitoring in real time
- Process Analytical Technologies (PAT)
- Crystallization Development & Screening
- Analytical Characterization
- Biopharmaceutical Analysis
- Biofuel Development & Production

Specification of Fiber Optic Transmission Probes FlexiSpec®		
Fiber type	Silica UV-VIS	Silica VIS-NIR
Operating spectral range	0.2 - 1.3 µm	0.4 - 2.2 µm
Immersion Depth	min 35 mm	
Gap (optical path)	2; 5 mm	
Temperature range	-50 to +200°C	
Minimum bending radius	120 mm (for 600 µm core fiber)	

Common Parameters of Fiber Optic Transmission Probes FlexiSpec®	
Total Length	2.0 m (opt. 1 - 30 m)
Shaft Length	300 mm (opt. 50 - 500 mm)
Shaft Diameter	25 mm
Shaft Material	Stainless steel, Hastelloy C22
Protective Tube Material	Liquid Tight SST-Conduit, KOPEX-Tube
Input / Output Connectors	SMA 905; FC/PC; ST
Flange	Any flange type, GTAW welding

