



PT50 Process Line



Example applications

- Process control with NIR, UV/VIS and fluorescence spectroscopy
- Measurement of UV-VIS-absorbing gases such as F₂, Cl₂, Br₂, I₂, SO₂, O₂
- Reaction tracking in chemical processes from UV to NIR
- Solvent blending



Benefits

- Easy process connection via standard flanges
- Optical layer thickness freely selectable by the customer
- Can be combined with common retractable housings
- Very high energy throughput for a good signal-to-noise ratio
- Suitable for all common fibre optic coupled spectrometers and photometers



Technical Specifications Standard Immersion Probe

Measuring Principle	Transmittance
Material Process Window	Sapphire
Material Flowcell	1.4571
Process Connection	DIN or ANSI Flange
Diameter / Immersion Depth	25 mm / 1 Zoll and 175 mm / 6,89 Zoll
Sealing Material	Kalrez® 6375
Temperature Range	5°C to 150°C (pertinent to Sealing Material)
Pressure Range	up to 40 bar / 600lb/sq.in. (pertinent to Flange)
Optical Path Length	freely selectable up to 20 mm / 0,78 Zoll
Collimation Optics	Stainless Steel 1.4571 with Lens Suprasil® 300
Optical Fiber	internally relocated Stainless Steel Coat 600/660 µm Quarzfiber with SMA Connection
Compliance	Pressure Equipment Directive 2014/68/EU

Other materials, such as other stainless steels or Hastelloy, are manufactured upon customer request. Other flange types or sealing materials can also be used according to customer requirements. For UV applications or on request, the probe can be manufactured with process windows made of quartz and collimation optics made of Suprasil® 1.