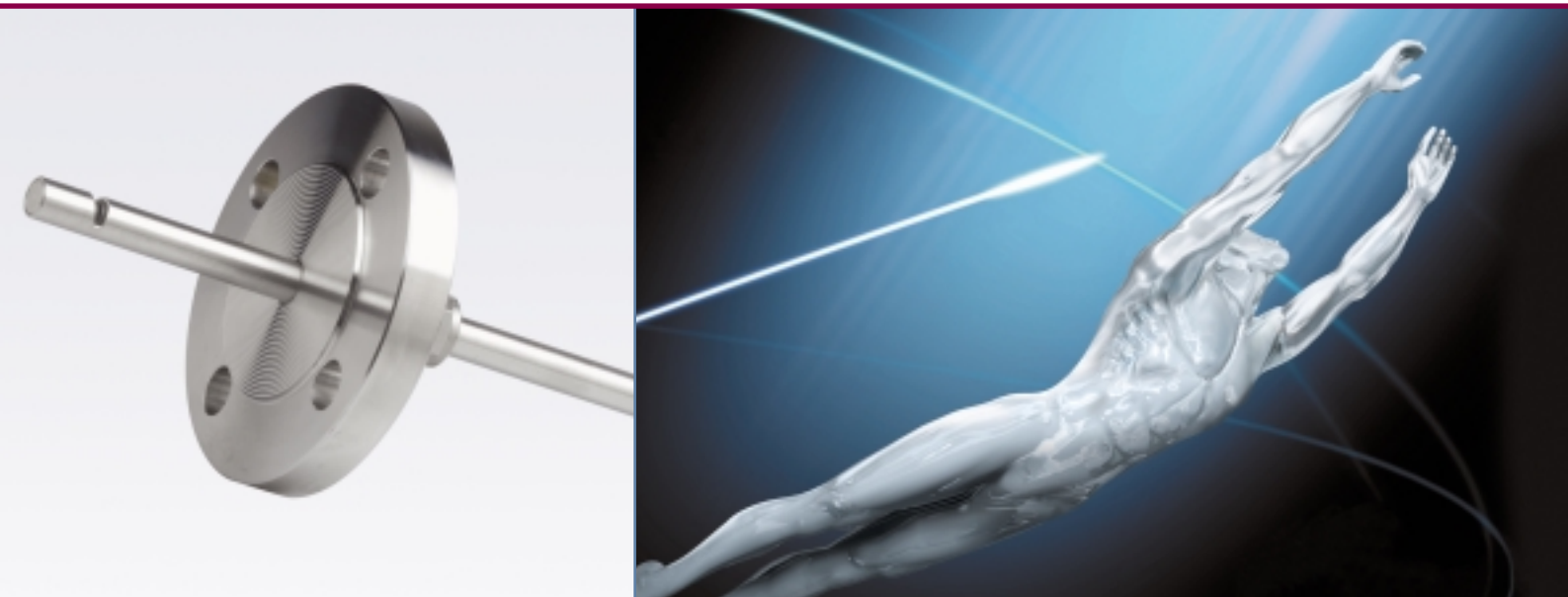


ZAFIRO

Fiberoptic Transmission-Immersion Probes with the Superior Optic Material – Sapphire



ZAFIRO transmission-immersion probes are remarkable for their robust design and unmatched selection of materials for all submersible components. With the optic material Sapphire, ZAFIRO transmission probes are practically abrasion- and corrosion free, and thus stable in concentrated, strong acids and bases. Moreover, the probes will not be damaged by spikes in temperature or pressure.

ZAFIRO probes are designed for direct immersion into containers, reactors and pipes. The Sapphire optic core is standard with optical path length of 1, 2, 5 or 10 mm. The probes' diameters are 12 and 18 mm, ideally sized for easy integration into standard retractable probe housings. ZAFIRO probes can also be further customized to meet your individual needs.

ZAFIRO – the Clear Advantages at a Glance

- Abrasion- and corrosion free Sapphire optic
- Chemical resistance
- Verifiable process capability
- Range of applications from UV to NIR
- Wide variety of models and customized designs
- Compatible with all types of spectrometers
- Complete range of accessories



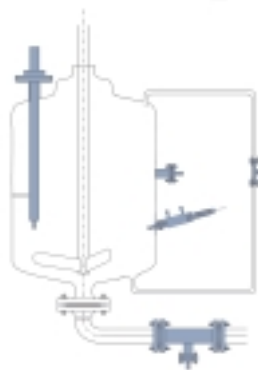
ZAFIRO Meets the Highest Demands in Process Analysis Technology

Applications

Determination of single parameters or multicomponent analysis in solutions or gases.

Standard Procedures

- Color number determination according to APHA, Hazen, Lovibond and Sayboldt
- Measurement of UV-VIS absorbing gases such as F₂, Cl₂, Br₂, I₂, NO_x, SO₂, Ozone and Hg
- Reaction monitoring in chemical synthesis from the UV to NIR range
- Control of membrane separation or process chromatography
- Solvent blending



Specifications

Optic

Optical path length (OPL) 1, 2, 5 or 10 mm

Probe Design

Dimensions Diameters 12 or 18 mm
Immersion depth from 100 mm

Standard materials Stainless steel DIN 1.4435/SS316L,
Sapphire

Process connectors DIN- or ANSI flanges
Screw fittings (Swagelok)
Tri-Clamp (ISO 2852-1974, 7.1)
Sanitary thread SC (DIN 11851)
Additional connectors upon request

Process Conditions

Temperature Maximum 275°C (continuous use)

Pressure 0–40 bar

Options

Alternative materials Stainless steel DIN 1.4571/SS316Ti,
titanium, hastelloy and PTFE

Other Additional designs, dimensions
and specifications upon request

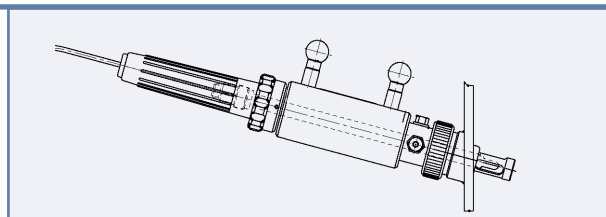
Declaration of Conformity

Certified in accordance with Pressure Equipment Directive 97/23/EC

Total Service – from Probes to a Complete Range of Accessories

We offer much more than just fiberoptic probes. Our comprehensive accessory program includes everything you need for implementing our probes as well as reliable coupling solutions for almost any type of spectrometer.

Ask us about the optimal solution for you.



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