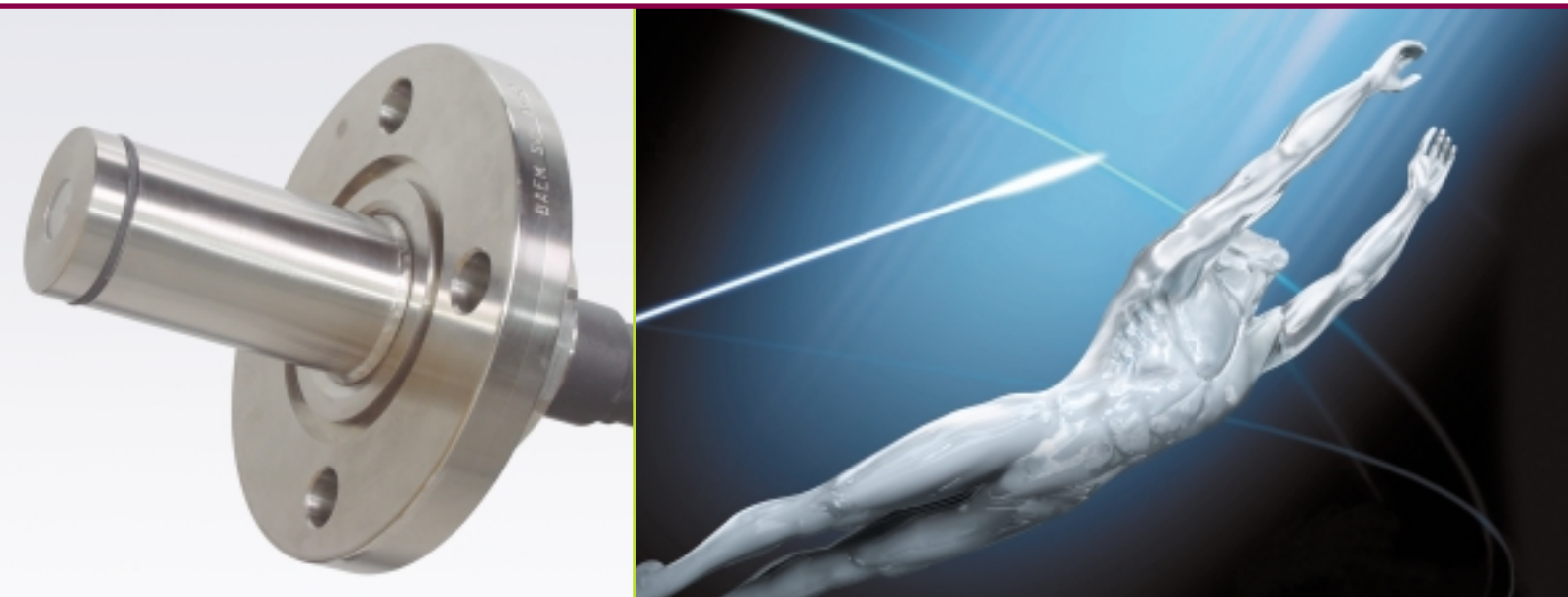


# ALBEDO

## Fiberoptic Reflection-Immersion Probes with the Superior Optic Material – Sapphire



ALBEDO reflection-immersion probes are remarkable for their robust design and unmatched selection of materials for all submersible components. With the optic material Sapphire, ALBEDO 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.

ALBEDO probes are distinguished by their remarkable signal-to-noise ratio. The probe's special construction allows for quantitative measurement in weak to extremely strong light-scattering substances. ALBEDO probes are designed for direct immersion into containers, dryers or mixers. The probes are manufactured in accordance with your selection from a wide range of materials, process connectors, diameters, pressure- and temperature ranges or can be further customized to meet your individual needs.

### ALBEDO – the Clear Advantages at a Glance

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



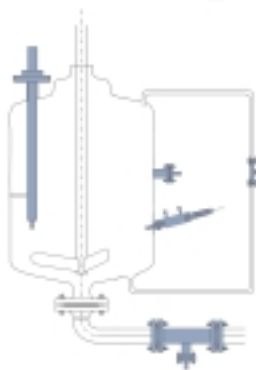
# ALBEDO Meets the Highest Demands in Process Analysis Technology

## Applications

Multicomponent analysis in heterogeneous systems and non invasive analysis of solids for identification and characterization.

## Standard Procedures

- Reaction monitoring in heterogeneous systems in the NIR range
- Analysis of solids compositions directly in mixers
- Determination of residual solvents concentrations on solids directly in driers



## Specifications

### Optic

Illuminated spot      Ø 3 mm

### Probe Design

Dimensions      Diameter 50 mm resp. 2"  
Standard materials      Stainless steel DIN 1.4435/316L, Sapphire  
Process connectors      DIN- or ANSI flanges  
Additional connectors upon request

### Process Conditions

Temperature      Maximum 140°C (continuous use)  
Pressure      0 – 40 bar

### Options

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