Backscatter TriClamp Process Probe

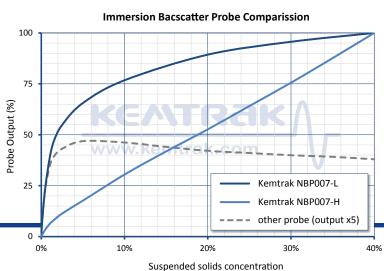
Applications:

- Interface detection
- Concentration measurement
- Product differentiation & identification
- Control & optimize CIP cycles

The Kemtrak backscatter TriClamp process probe is designed to accurately measure low to extremely high turbidity directly in pipelines. The probe uses a standard DN25/1" TriClamp sanitary type process connection making it suitable for direct mounting on any size pipeline greater than DN25/1" diameter.

The dual fiber optic design of the immersion probe provides high resolution at low turbidity with excellent linearity all the way up to extremely high turbidity when used with a Kemtrak NBP007 near-infrared backscatter photometer.

A unique benefit of the Kemtrak backscatter immersion probe is that it does not go blind at high sample turbidity. Other probes will stop working at 4000 NTU/FNU (<1 wt% solids) after which the signal will decrease resulting in an erroneous and misleading output. The output of the Kemtrak probe will continue to increase with sample concentration ensuring a reliable measurement.



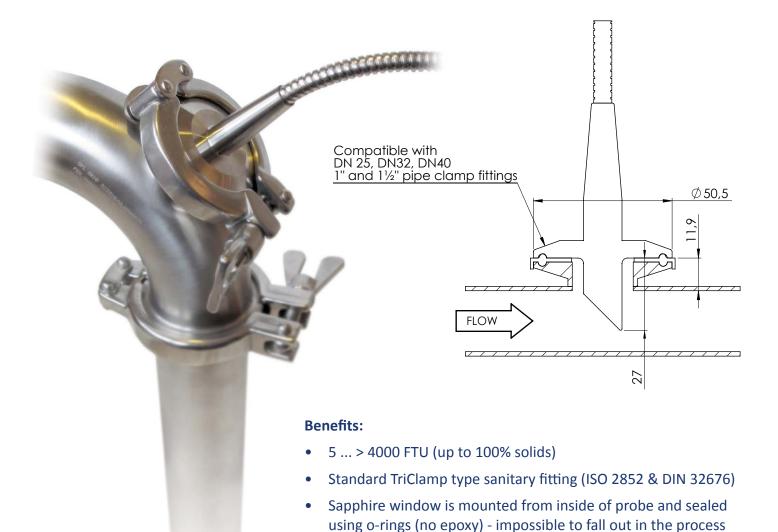
The probe is manufactured in 316L stainless steel with a robust scratch resistant sapphire window. The highly polished unbroken surface probe ensures freedom from fouling and suitability for sanitary applications.

The fiber optic immersion probe has no electronics that will be damaged by high temperature process streams or sterilization cycles and is suitable for hazardous area use.

All Kemtrak products are made from the highest quality materials and are designed to the most demanding specifications to ensure long life and the highest reliability.



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Measurement Range 5 FNU/NTU - 100% solids

Sanitary Tri-Clamp® clamp type fitting ISO 2852 & DIN 32676

Compatible with 50,5 +0/-0,19 mm outside diameter (DN25, DN32, DN40, 1" and 11/2").

Material

Stainless EN 1.4435 / 316L

Window

Sapphire

Surface Finish Ra < 0.4 µm

Elastomers

EPDM (FDA), FKM (FPM, Viton®, Fluorel®), FFKM (Kalrez® Spectrum 6375)

Operating Conditions

Ambient & process temperatures up to 260°C (500°F) Process pressure from 10 mbar to 16 bar Operating conditions subject to material and design in use

Fibre Optic cable

Silica core photonic fiber with fully-interlocked flexible stainless steel jacket and Kevlar® reinforcement Terminated with SMA 905 connectors Lengths up to 100 m (328 foot)

Protection

Recommended Controller

Suitable for installation in hazardous area (Ex proof)

Kemtrak NBP007 backscatter photometer



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> We reserve the right to make changes without previous notice

Distributor

Kemtrak is a leading manufacturer of fiber optic measuring and automation products for the process engineering industry. The Company provides tailor made solutions to meet the needs of a wide range of industries including chemical, petrochemical & offshore, pharmaceutical, food & beverage, pulp and paper and water & environment. With its headquarters in Stockholm Sweden, Kemtrak has trained representatives and support personnel globally. The main manufacturing facility in Gothenburg, Sweden is certified according to ISO 9001:2000.