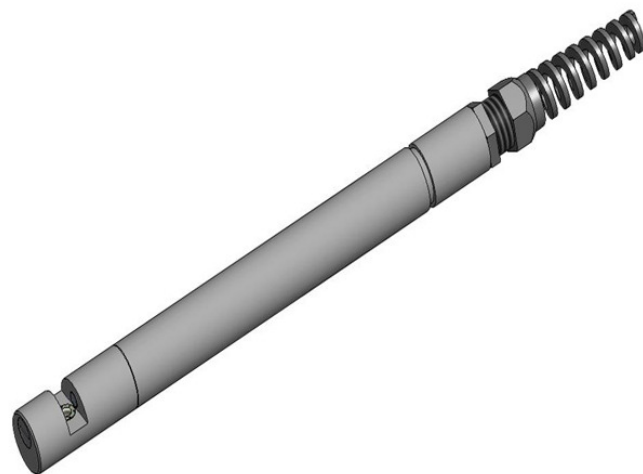


Turbidity Process Probe

GUIDED WAVE'S Turbidity Probe with an additional third port can be used for Haze or Turbidity (NTU) measurements with our ClearView® db process photometer. The turbidity measurement detects solids breakthrough in your process while simultaneously measuring the transmission. The 20mm pathlength is appropriate, for example, when monitoring Saybolt color. One of the primary advantages of UV-Vis and NIR process spectroscopy is the utilization of intrinsically safe fiber optic cables to remotely locate the analyzer relative to your process. Inline probes eliminate costly and problematic fast loops and sample systems.



Turbidity Probe Features

- Corrosion resistant construction
- Rugged design
- O-ring process seals
- Sealed against ambient moisture infiltration
- High optical throughput for low noise spectroscopy
- Collimated beam for accurate absorbance measurements
- Vibration resistant design
- Haze or turbidity measurement is made by a 90° backscatter method. This function requires a third optical fiber to return the scattered light to the analyzer.

Process-Resistant Construction

The Turbidity Probe is designed to withstand corrosive processes. The body of the probe is built from 316L stainless steel. The probe's sapphire optical windows are sealed to the probe body with polymer o-rings chosen to be compatible with your process.

On request, the Turbidity probe can be supplied welded to an ANSI or DIN process flange. Like our other process probes, 24 inches or longer, it is also compatible with our probe extractor.

Operating Range and Configurations

The operating range of the Turbidity Probe will be determined primarily by the choice of o-ring material. The maximum operating temperature and pressure are 250°C and 500 psi. This probe is available in five standard lengths, and UV, visible and NIR versions.

Exceptional Light Transmission

Like other Guided Wave optical probes, the Turbidity Probe provides exceptional optical performance. Typically, peak transmission exceeds 25%. That means more signal, lower measurement noise, and lower limits of detection.

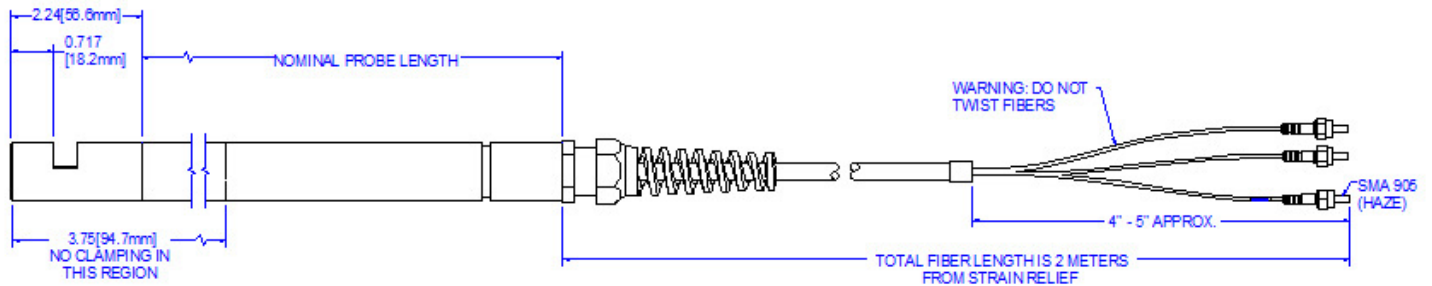


ClearView db Photometer Enclosure Options

Turbidity Process Probe

Specifications

Standard Probe Lengths (inches):	12; 18; 24; 30; 36
Pathlength (mm \pm 0.075 mm):	20
Nominal Probe Diameter (inches):	1.0
Spectral Range:	UV (250 – 700 nm); Vis (380 – 1050 nm); NIR (600 – 2100 nm)
Fiber Diameter (μ m):	600
Connector:	SMA 905
Fiber Types:	UV-SR (230-750 nm) or VIS-NIR (550-650 nm); NIR Ultra Low-OH (550-2100 nm)
Optical Efficiency (%T):	\geq 25%
Temperature Range:	Determined by o-ring material but not to exceed -20 °C to 250 °C
Pressure Range:	0 psi to 500 psi [0 – 34 bar]
Body Material:	316L SS standard
Window Material:	Sapphire
Window Seal:	Polymer o-ring material of your choice with a Durometer of 70 Shore A or greater including: Viton (standard) Kal-Rez® 6375, 2035, 4079. other materials available



Contact Us

Please contact a Guided Wave sales representative at gwsales@guided-wave.com for additional information. Detailed installation drawings are available for review. For additional information on Guided Wave process analyzers, process probes, and fiber products please see our website at www.guided-wave.com.