PRECISION SENSING DEVICES

Where Innovation, Application & Technology Come Together

SERIES 60 Laboratory Transflectance Probe

PSD's Series 60 Laboratory Transflectance Probe is a precision optical instrument that allows remote fiber optic NIR transmission measurement of clear or slightly scattering liquid process streams.

The standard probe comes with an integral bifurcated 3 meter long 600 micron ultra low OH silica fiber assembly that terminates in two SMA connectors and uses an optically efficient sapphire window reflecting mirror assembly. The probe body is made from 316/316L stainless steel. The probe diameter is 0.25" (6.25mm) x 6.00" (150mm) long. Longer fiber lengths, fiber diameter, alternative materials, probe diameters and lengths are also available to satisfy specific customer requirements.

This probe is a double-pass transflectance design where the radiant energy passes through the sample medium twice. This makes the effective pathlength twice the physical gap. The probe can come with a replaceable variable pathlength mirror tip with a range of 1mm–10mm. As an alternative, interchangeable fixed pathlength mirror tips of 1, 2, 5 and 10 mm can also be provided. The result is high transmission capability, excellent optical stability and photometric accuracy.

PRODUCT HIGHLIGHTS & SPECIFICATIONS

High performance at a cost effective price

* Fiber Type: 600 micron Ultra Low OH Silica

    Standard NIR Sampling; Optional UV
    and visible available sampling upon request

Variable Pathlength Mirror Tip (1–10mm)

Interchangeable Fixed Pathlength Mirror Tips (1, 2, 5, 10mm)

Pressure Limit: 300 PSI

Temperature Range: -50°C to 150°C

* Probe Diameter: 0.25" (6.25mm)

* Probe Length: 6.00" (150mm)

Optics: Sapphire STD; Quartz on request)

* Fiber Length: 3 meters

Fiber Sheath: PVC Monocoil

Probe Material: 316/316L Stainless Steel
(other materials available upon request)

**Other sizes are available upon request*

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