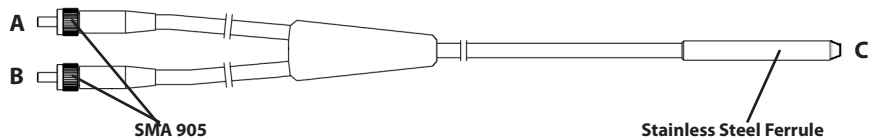


FRP Series Fiber Reflectance Probes



The FRP fiber reflectance probe combines optical fibers at one end for sample measurement and is bundle bifurcated into two channels at the other end for connection to a light source and spectrometer.

A fiber optic reflectance probe can measure either diffuse or specular reflectance from surfaces. When positioned at an angle to the surface normal, it measures diffuse reflectance. When positioned normal to the surface, 0° angle of incidence, it measures specular reflectance.



Features:

- Stacked Fiber Input

Applications:

- Diffuse Reflectance
- Specular Reflectance

All standard FRP reflectance probes consist of a bundle of 7 optical fibers in a stainless steel ferrule (illustrated as Terminal C). Assemblies are available with broadband grade fused silica optical fibers with standard fiber core diameters of 200µm or 400µm.

The light source and spectrometer channels feature standard SMA 905 connectors.

Ordering Information:

MODEL NUMBER	TYPE	FIBER	SPECTRAL RANGE
FRP-200-0.22-1.5-BB	Light Source Channel Round Bundle	Broadband	275-2100nm
FRP-400-0.22-1.5-BB			



Specification:

Core Diameter (µm)	200±4 or 400±8
Core Material	Silica
Cladding Material	Doped Silica
Buffer Material	Polyimide
Jacket Material	PVC
Channel Connectors	SMA905
Sample End Ferrule	3" Long x 1/4" Diameter
Concentricity	± 3µm
Numerical Aperture (NA)	0.22 ± 0.02
Acceptance Cone (Full Angle)	25.4°
Overall Length	1.5m
Operating Temperature	Up to +80°C (176°F)