

Dipping Probes



WPI's New Fiber Optic Dipping Probes (FODP) are transmission probes optimized for real time liquid UV/VIS/NIR absorbance and transmission measurements. Built with our proprietary qualified fiber that enhances the sensitivity and improves the detection limits when compared with traditional common dipping probes currently on the market. These probes are ideal for testing liquid samples for science and industry applications requiring in-situ continuous monitoring or on-the-spot analysis where it is not practical to bring the sample to a cuvette in an instrument. Along with our proprietary qualified optical fibers, the proprietary probe design has stainless steel and fused silica contact areas to withstand a variety of chemical compositions. Several probe geometries are available including overall tip size, length, and even angular probe configurations to be inserted into production fittings or to avoid dead zones of measurement vessels so as to obtain the best data possible.



FODP-10UV dipping probe with dip stand

FEATURES

- Fiber Optic Dipping Probe for laboratory and commercial use. Industrial versions are available on special order
- 2, 5, and 10 mm non-adjustable pathlengths
- 200nm-1200 nm wavelength range
- SMA 905 fiber termination, for easy coupling to most detectors and light sources. Other terminations available as a custom order
- Quality German Design
- 600 μm fibers for high optical throughput, with other sizes available as a custom order

BENEFITS

- Excellent UV Transmission starting at 200 nm
- Small 4 mm shaft diameter for minimum liquid displacement
- Flow optimized probe head for stirred liquids
- Easy-to-handle ergonomically formed handle makes it easy for technicians to get repeatable results, especially with the available dip stand
- Compatible with SMA fiber couplers from Agilent, Perkin Elmer, Thermo, Mettler Toledo, Shimadzu, Ocean Insight, Avantes and many others
- Range of accessories such as filters, flow through sample chambers and much more.

Figure 1:



Figure 2: Flow optimized probe head for stirred liquids

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Dipping Probes



ACCESSORIES

Stand for FODP Dipping Probes
#FODP-STAND

TIDAS S300 spectrophotometer
505066: 190 – 390 nm
505067: 190 – 720 nm
505068: 300 – 1000 nm



TIDAS S300 spectrophotometer
504717: 190 – 390 nm
504718: 190 – 720 nm
504719: 300 – 1000 nm



LWCC, 1mm ID, 100 MM Pathlength
#LWCC-5010



APPLICATIONS

- Mixing performance of liquids and powders
- Antigen or activator fluorescence studies with GFP and other fluorophores
- DNA, RNA & protein analysis
- Water Quality Analysis
- Colorimetric nutrient and trace metal analysis
- Drug discovery
- Process control

Please Note: Trade names used are for informational purposes only and does not imply endorsement.

SPECIFICATIONS

	FODP-02UV	FODP-05UV	FODP-10UV
Optical pathlength [mm]	2	5	10
Wavelength range [nm]	200 – 1200,		
Transmission 220 & 500/nm ¹ [%]	> 15 & >30		
Optical Fibers	QVLUX-DUV Proprietary WPI Qualified Fiber		
Tip / Shaft diameter [mm]	8 / 4		
Immersion Depth [mm]	130 mm		
Total assembly Length [mm]	1500		
Fiber Split Point from SMA [mm]	500		
Weight [kg / lbs.]	0.5 / 1.1		
Fiber connection	SMA 905, 600µm core fiber		
Wetted Materials	Fused silica, stainless steel 1.4305 / 303, biocompatible epoxy		
Temperature Range [°C]	5 to 100		
Maximum Pressure [PSI / kPA]	100 / 700		
Solvent compatibility	Common alcohols, light acids and bases. Contact us for more specific questions and applications		

Notes: 1. Transmission reference: 100% Transmission is defined as two fibers with a core diameter of 600 micrometer coupled with a WPI#13395 bulkhead fitting

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