DIP PROBE

PART NUMBER: P-DIP

- **Economical**
- **High Throughtput**
- **Rugged Construction**
- **220°C, 250 psi**
- **Compatible with all CDI Spectrographs**

Control Development's small, high-throughput Dip Probe is ideal for use in a laboratory setting. The Dip Probe is available in fixed path lengths of 2, 5, 10, and 20 mm. Dip Probe tips may be interchanged on the same set of optical fibers by merely unscrewing the SMA connector that holds the tip in place. The optical fiber is 400-micron core fused silica and is clad in PVC-coated stainless steel armor. If needed, the armor can be sealed with Teflon® for high-temperature operation. The fibers are terminated into a wand for easy clamping or holding. The Dip Probe is available in both UV and NIR versions, as dictated by the customer's application needs.

Control Development's Dip Probe incorporates a back reflecting aluminum mirror for high light return at UV wavelengths. Under Control Development design, the sensitive aluminum layer is back-coated on a silica disk with a protective MgF2 overcoat. The mirror is then sealed into the bottom of the probe. Both the mirror and the collimating lens are held in the stainless steel housing with a durable, high temperature epoxy. The SMA 905 connector is sealed to the Dip Probe with a Viton® O-ring, allowing the connector to be immersed. All wetted surfaces are silica, stainless steel, Viton® or epoxy.

Optical

Path lengths	2,5,10 & 20 mm
Lens/window material	UV or NIR fused silica**
Numerical aperture	0.32 NA
Reflector material	Back surface Al/silica**
Efficiency	Typical: 30% at 500 nm* Guaranteed: 20% at 500 nm
Optical fiber type	UV or NIR 400/440 silica on silica‡
Fiber packaging	PVC-coated (80°C) armored duplex Teflon®-coated (220°C) armored duplex
Fiber length	1 meter Standard‡
Fiber termination	SMA 905

Physical

Body and wand materials	316 SS**
Body dimensions	1.25" + path length/2 L x OD
Wand dimensions***	4" L x 0.25" OD
Seal type	Epoxide and O-ring
Seal material	Epoxy Viton®
Temperature range	-20°C to 220°C
Maximum pressure	250 psi / 17 bar

ORDERING INFORMATION:

Part Number:

P-DIP $1390.00

*Efficiency measured relative to direct fiber connection between light source and detector using 400 micron core fiber
**Other materials available upon request - allow 8 weeks for delivery of special materials
***Custom length up to 1 meter available
‡Other fiber sizes and lengths available upon request.

Affordably Priced At $1,390.00

Control Development, Inc. also manufactures integrated spectroscopy systems for: UV-VIS, NIR, RAMAN and OEM customers.

CONTROL DEVELOPMENT
THE PRICE PERFORMANCE LEADER...

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