

FIBER OPTIC DIP PROBE



Features:

- Economical
- High Throughput
- 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 Vitone® O-ring, allowing the connector to be immersed. All wetted surfaces are silica, stainless steel, Vitron® or epoxy.

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**CONTROL
DEVELOPMENT**
THE PRICE PERFORMANCE LEADER...

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**
Seal type	Epoxide and O-ring
Seal material	Epoxy Vitron®
Temperature range	-20° C to 220° C
Maximum pressure	250 psi/17 bar

Part Number: P-DIP

Control Development, Inc., reserves the right to change specifications without notice.