

RPB FIBER OPTIC RAMAN PROBE

PART NUMBER: RPB785

The RPB fiber optic probe is a breakthrough for routine laboratory Raman spectroscopy. A modified design based upon the patented RamanProbe™ optical layout has resulted in drastic cost-reduction with limited performance tradeoff. It is the clear Cost/Performance winner among laboratory Raman sampling probes.



The RPB is available for three excitation wavelengths: 785, 633, and 532 nm and can be directly coupled to a most spectrometer designs.

Optical filtering of 106 offers efficient attenuation of the Rayleigh line for background free spectra. The probe is lightweight and compact, and has a manual safety shutter to shield the user from laser light. As with our standard RamanProbe™, the RPB can be used with the compact sample holder for routine measurement of liquids and solids. Custom configurations are available for high-volume applications.

Features and Specifications:

Sampling head	_____	Anodized aluminum probe, 4.2" x 1.5" x 0.5" (107 x 38 x 12.7mm), with 1.5" long (38 mm) non-immersible, stainless steel probe tip.
Spectral Range	_____	300 - 3900 cm^{-1} (Stokes), depending upon spectrometer limits
Excitation Wavelength	_____	532, 632, "785" (782-788) nm
Working Distance	_____	7.5 mm (std.) 5 or 10 mm optional
Fiber Configuration	_____	Permanently aligned combination of two single fibers (90 μm excitation fiber, 200 μm collection fiber standard) with filtering and steering micro-optics, N.A. 0.22, in rugged polyurethane jacket
Filter Efficiency	_____	Patented design for complete filtering of the laser line and quartz spectral contributions from both input and output fibers (O.D. > 6 at laser wavelength).
Physical Resistance	_____	Durable probe can be used up to 80°C
Cable Length/ Coupling System	_____	1.5 m with FC (std.) or SMA 905 connectors
Safety Features	_____	Manual safety shutter to block laser output; Class I sample holders available

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

Affordably Priced At \$2995.00



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

