

Raman Accessory

## BAC101 Industrial Grade Raman Probe



The BAC101 industrial grade Raman probe is an add-on accessory designed for use with B&W Tek Raman systems. With state-of-the-art telecom packaging techniques and optimized optical lenses, the excitation laser emits from the end of the probe where Raman signal is then collected from the sample.

The BAC101 has two standard designs for use with 532nm or 785nm excitation Raman systems (custom wavelengths are available upon request). Flexible fiber coupling and durable protective jacketing material with SMA905 (collection) and FC (excitation) terminations are standard. The BAC101 shaft material and length, window material, seal material, and working distance can all be customized to suit your application needs.

The BAC101 is designed for demanding laboratory and process applications for Raman measurement in liquids, powders, slurries, and solids.

### Features:

- Excellent Long-term Stability
- State-of-the-art Packaging
- Optimized Optical Design
- Increased Durability
- High Throughput

### Specifications:

Fiber for Excitation	105µm Core With FC/PC Connector
Fiber for Collection	200µm Core With SMA 905 Male Connector
Fiber Length	1.5 Meter or Customer Specified
Excitation Wavelength	785nm for BAC101-785 532nm for BAC101-532 Other Excitation Wavelength Options Are Available
Raman Shift	Starts From: 175 cm <sup>-1</sup> (Default S-grade) Starts From: 100 cm <sup>-1</sup> (Optional E-grade)
Rayleigh Rejection	OD6 Default, OD8 Optional
Shaft Diameter	12mm Diameter
Shaft Material	Standard Stainless Steel 316L Options Are Hastelloy® C-276 or Titanium
Shaft Length	76.2mm (min) - 200.3mm (max)
Window Material	Standard: Fused Silica Window Options: Sapphire Window or Sapphire Ball Lens
Seal Material	Kalrez O-ring or Customer Specified
Working Distance	5mm (Standard), 10mm, 20mm
Spot Size at Sample Surface	105µm
Maximum Pressure	300 PSI
Maximum Temperature	300°C, at tip of the probe

### Dimensions:

#### Probe (mm):

