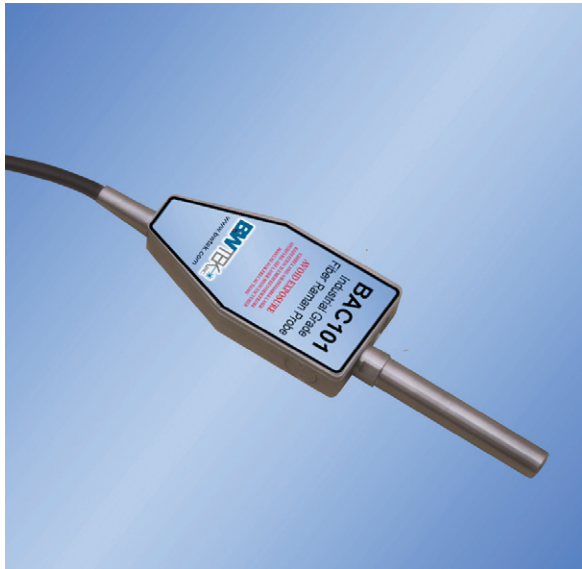


Industrial Grade Fiber Raman Probe



B&W TEK's durable industrial Raman probe is designed for use in demanding environments for both laboratory and process applications when Raman sampling liquids, powders, slurries, and solids. The innovative design uses state-of-the-art patent pending packaging techniques and optimized optical designs. Available wavelength options include 785, 532, 473, 488 nm or custom wavelengths upon request. Flexible fiber coupling and durable protective jacketing material with an SMA905 termination provide easy coupling to Raman spectrometers. The Raman probe is suitable for laboratory, field, and many process applications.

Highlights

- Optimized optical design
- State of the art packaging
- Optimal signal throughput
- Excellent long-term stability

Specifications

Fiber for excitation	105 μm core with FC/PC connector
Fiber for collection	200 μm core with SMA 905 male connector
Fiber length	1.5 meter or customer specified
Excitation wavelength	785 nm for BAC101-785 532 nm for BAC101-532 Other excitation wavelength options are available
Raman Shift	Starts from: 175 cm^{-1} (default s-grade) Starts from: 100 cm^{-1} (optional e-grade)
Rayleigh rejection	OD6 default, OD8 optional
Shaft diameter	12 mm diameter
Shaft material	Standard stainless steel 316L; options are Hastelloy C or Titanium
Shaft length	3 in - 8 in or customer specified
Mounting flange (optional)	Customer specified
Window material	Standard: fused silica window Options: sapphire window or sapphire ball lens
Seal material	Kalrez O-ring or customer specified
Working distance	5, 10, 20 mm
Spot size at sample surface	105 μm
Maximum pressure	300 PSI
Maximum temperature	300 $^{\circ}$ C, at tip of the probe