

# BAC100

## Raman Probe



B&W TEK's new Raman probe is designed to allow sampling of materials such as liquids, powders, slurries, and solids both in lab and process conditions. The innovative design is using state of the art telecom packaging techniques (patent pending) and optimized optical lenses. Two excitation wavelengths are available, one for 785 nm and another for 532 nm lasers. Compatible with virtually all SMA coupled spectrometers, the Raman probe is suitable for laboratory, field, and selected process applications.

### Highlights

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

### Specifications

Fiber for excitation  
Fiber for collection  
Fiber length  
Excitation wavelength

Laser blocking  
Shaft diameter  
Shaft material  
Shaft length  
Window material

Seal material

Sampling lens focal distance  
Working distance  
Spot size at sample surface  
Maximum pressure  
Maximum temperature

105 um core with FC/PC connector  
200 um core with SMA 905 male connector  
1.5 meter

785 nm for BAC100-785 (**place order as BAC100-785**)

532 nm for BAC100-532 (**place order as BAC100-532**)

Other excitation wavelength options are available

OD6 default, OD8 optional

3/8"(9.5 mm) diameter

Standard stainless steel 316L; optional Hastelloy C, Titanium

3" (76.2mm)

Standard flat quartz

Optional flat sapphire and sapphire ball

For Lab, epoxy sealed

For process, Kalrez O-ring or customer specified

8.1 mm

5.90 mm

105 um

**Lab Version:** 30 PSI; **Process Version:** 150 PSI

**Lab Version:** 80 °C; **Process Version:** 150 °C, at tip of the probe

