

Raman bIO-Optics

Continuous, inline, multi-component bioprocess measurement



More information and current pricing:

www.de.endress.com/KLBIO1

Benefits:

- Immersion optics for multi-component bioprocess measurement
- Compatible with standard bioreactor ports
- Fixed-focus design
- Available in 12 mm diameter with Pg 13.5 threaded connector
- 120, 220, 320, or 420 mm lengths
- Autoclavable

Specs at a glance

- **Sampling probe compatibility** Raman Rxn-10 probe
- **Wetted materials** Body: 316L stainless steel Window: Proprietary material, optimized for bioprocesses Process connection: PG13.5 Surface finish: Ra 15 with Electropolish to ASME BPE SF4 finish Adhesive: USP Class VI and ISO 10993 compatible
- **Sterilization method** Autoclave

Field of application: Raman bIO-Optics are versatile immersion optics used in conjunction with the Rxn-10 probehead and compatible with standard bioreactor ports. The fixed focus design provides long-term measurement stability along with superior signal performance, essential for transferable, high performance Raman-based bioprocess analysis. Available in industry standard lengths, Raman bIO-Optics are ideally suited for both glass and plastic benchtop bioreactor/fermenter applications requiring headplate entry.

Features and specifications

Liquids

Measuring principle

Raman spectroscopy

Liquids

Laser wavelength

785 nm, 1000 nm

Sampling probe compatibility

Raman Rxn-10 probe

Sample interface

Temperature: -30 to 150 °C

Pressure

Max pressure (psig): 200

Wetted materials

Body: 316L stainless steel

Window: Proprietary material, optimized for bioprocesses

Process connection: PG13.5

Surface finish: Ra 15 with Electropolish to ASME BPE SF4 finish

Adhesive: USP Class VI and ISO 10993 compatible

Length

120, 220, 320, or 420 mm

Diameter (mm)

12

Sterilization method

Autoclave

Process connection

PG13.5

More information www.de.endress.com/KLBIO1