

Raman Rxn-45 probe

The ultimate in compatibility for bioprocess manufacturing



More information and current pricing:

www.ca.endress.com/KR45

Benefits:

- Measures multiple components in real-time for automated 24/7 process feedback
- Provides long-term measurement stability
- Offers a suitable surface finish for cGMP manufacturing
- Provides compatibility with industry standard bioreactor side ports and sensor housings
- Offers the flexibility of being installed in development and production reactors
- Reduces sterilization and cleaning burdens with CIP/SIP standard compatibility

Specs at a glance

- **Laser wavelength** 785 nm, 1000 nm
- **Wetted materials** Body: 316L stainless steel Window: Proprietary material, optimized for bioprocesses Process connection: PG13.5 for industry standard sensor housings, welded port connectors available Surface finish: Ra 15 with electropolish Adhesive: USP Class VI and ISO993 compatible
- **Sterilization method** CIP/SIP

Field of application: The Raman Rxn-45 probe capitalizes on the power of Raman in bioprocess manufacturing by measuring multiple, specific components in real-time for continuous, around-the-clock process feedback. It also meets the daunting sampling requirements of compliance, sterilization, port compatibility, and convenience. The Raman Rxn-45 probe was designed for installation in development and cGMP stainless-steel reactors and is successfully used to provide an analytical “eye” into large-scale bioprocesses.

Features and specifications

Liquids

Measuring principle

Raman spectroscopy

Laser wavelength

785 nm, 1000 nm

Spectral coverage

Probe spectral coverage is limited by the coverage of the analyzer being used.

Maximum laser power into probehead (mW)

<499

Sample interface

Temperature: -30 to 150 °C

Temperature ramp: ≤30 °C/min

Pressure

Max pressure (psig): 200

Wetted materials

Body: 316L stainless steel

Window: Proprietary material, optimized for bioprocesses

Process connection: PG13.5 for industry standard sensor housings, welded port connectors available

Surface finish: Ra 15 with electropolish

Adhesive: USP Class VI and ISO993 compatible

Fiber optic cable

Cable sold separately

Length

120 mm

Diameter (mm)

12

Liquids

Sterilization method

CIP/SIP

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