

Raman Rxn-10 probe

A versatile probe for your Raman spectroscopy needs



Benefits:

- Multipurpose use for both solids and liquids measurement
- Lightweight and compact
- Integrated laser safety interlock, including “laser on” indication and probe shutter
- Flexible output compatible with a range of sampling options
- Easy switching of non-contact, immersion, and bioprocessing optics to suit a variety of applications
- Wide spectral range, including access to the critical low-wavenumber region

Specs at a glance

- **Laser wavelength** With immersion optic: 532 nm, 785 nm, 1000 nm With bio-Optic: 785 nm, 1000 nm With Raman optic system for single use: 785 nm, 1000 nm
- **Body and window materials** Rxn-10 probe body: 6061 aluminum, 316L stainless steel, and 303 stainless steel

More information and current pricing:

www.casc.endress.com/KR10

Field of application: Designed for product and process development, the Rxn-10 probe is the workhorse of the Raman probe portfolio. It is trusted to deliver high performance Raman measurements across a wide spectral range. It is also compact, lightweight, and flexible, offering multi-purpose convenience for solids and liquids analysis in the laboratory environment. The Rxn-10 probe accepts a variety of interchangeable optics, making it a highly versatile and easily adaptable instrument in your laboratory toolbox.

Features and specifications

Liquids

Measuring principle

Raman spectroscopy

Laser wavelength

With immersion optic:

532 nm, 785 nm, 1000 nm

With bIO-Optic:

785 nm, 1000 nm

With Raman optic system for single use:

785 nm, 1000 nm

Spectral coverage

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

Temperature

Temperature, Rxn-10 probe:

-10 to 70 °C

Relative humidity

20-60% non-condensing

Maximum laser power into probehead (mW)

<499

Sample interface

Based on the sampling optic selected

Body and window materials

Rxn-10 probe body: 6061 aluminum, 316L stainless steel, and 303 stainless steel

Fiber optic cable

Design: PVC jacketed, proprietary construction

Connections: proprietary electro-optic (EO), or FC to EO fiber converter(s) for non-embedded systems

Temperature: -40 to 70 °C

Length: 5 to 25 m standard, available in 5 m increments

Minimum bend radius: 152.4 mm

Liquids**Length**

Rxn-10 probe (including fiber cable bend radius): 356 mm

Diameter (mm)

Rxn-10 probe: 19

Working distance (mm)

Based on the sampling optic selected

Solids**Measuring principle**

Raman spectroscopy

Laser wavelength

532 nm, 785 nm, 1000 nm

Spectral coverage

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

Temperature

Temperature, Rxn-10 probe:
-10 to 70 °C

Relative humidity

20-60% non-condensing

Maximum laser power into probehead (mW)

<499

Sample interface

Based on the sampling optic selected

Body and window materials

Rxn-10 probe body: 6061 aluminum, 316L stainless steel, and 303 stainless steel

Solids

Fiber optic cable

Design: PVC jacketed, proprietary construction

Connections: proprietary electro-optic (EO), or FC to EO fiber converter(s) for non-embedded systems

Temperature: -40 to 70 °C

Length: 5 to 25 m standard, available in 5 m increments

Minimum bend radius: 152.4 mm

Length

Rxn-10 probe (including fiber cable bend radius): 356 mm

Diameter (mm)

Rxn-10 probe: 19

Working distance (mm)

Based on the sampling optic selected

More information www.casc.endress.com/KR10