

Raman Rxn-20 probe

The no-touch, focus-free solution for Raman lab or process solids measurement



More information and current pricing:

www.apsc.endress.com/KR20

Benefits:

- Non-contact measurement of heterogeneous solids for better representation
- Improved process control and efficiency through faster measurements
- Non-destructive measurements from a distance
- Reproducible sampling
- "Focus free" alignment
- No need to align probe for surface roughness
- Surface and deep layer (volumetric) analysis

Specs at a glance

- **Laser wavelength** 785 nm
- **Body and window materials** Body: 316L stainless steel Window: optical-grade materials
- **Hazardous area certifications** ATEX, CSA, IECEx

Field of application: For solids and semi-solids analysis, the Raman Rxn-20 probe reigns supreme. Its state-of-the-art, stainless-steel probe design produces representative, focus-free, quantitative Raman measurements. The Rxn-20 probe illuminates a large surface area and eliminates the need to align the probe for surface roughness. It provides heterogeneous solids sampling via volumetric analysis, which is highly useful for measuring tablets, capsules, food solids, and polymer beads.

Features and specifications

Solids

Measuring principle

Raman spectroscopy

Solids**Laser wavelength**785 nm

Spectral coverage175-1890 cm⁻¹ (785 nm)

TemperatureTemperature, Rxn-20 probe:
-10 to 40 °C

Relative humidity20-80% non-condensing

Maximum laser power into probehead (mW)<499

Sample interfaceTemperature:
10 to 40 °C
Relative humidity:
20-80%, non-condensing

PressureAmbient

Body and window materialsBody: 316L stainless steel
Window: optical-grade materials

Fiber optic cableDesign: PVC jacketed, proprietary construction
Connections: proprietary electro-optic
Temperature: -40 to 70 °C
Length: 3, 10, and 15 m lengths available
Minimum bend radius: 75 mm

Length

Rxn-20 probe (including fiber cable bend radius): 312 mm

Solids

Diameter (mm)

Raman Rxn-20: 48

Working distance (mm)

Based on the sampling optic selected

Hazardous area certifications

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