

## Raman Rxn-20 probe

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



More information and current pricing:

[www.casc.endress.com/KR20](http://www.casc.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

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**Solids****Laser wavelength**785 nm

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**Spectral coverage**175-1890 cm<sup>-1</sup> (785 nm)

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**Temperature**Temperature, Rxn-20 probe:  
-10 to 40 °C

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**Relative humidity**20-80% non-condensing

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**Maximum laser power into probehead (mW)**<499

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

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**Pressure**Ambient

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

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**Fiber optic cable**Design: 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

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**Length**

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

## Solids

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**Diameter (mm)**

Raman Rxn-20: 48

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**Working distance (mm)**

Based on the sampling optic selected

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**Hazardous area certifications**

ATEX, CSA, IECEx

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