

## Raman Rxn-40 probe

Designed to promote versatility and materials compatibility



More information and current pricing:

[www.ca.endress.com/KR40](http://www.ca.endress.com/KR40)

### Benefits:

- Customizable to your process
- Robust design with a range of process connections
- In situ/no transfer lines or fast-loops required
- Faster, simpler installation
- Support for a range of chemical processes and corrosivity requirements
- Ensures safety and meets regulatory requirements
- Suitable for hazardous/classified environments

### Specs at a glance

- **Laser wavelength** 532 nm, 785 nm, 1000 nm
- **Wetted materials** Metal: C276 alloy, 316L stainless steel, or Grade 2 titanium Window: High-purity sapphire
- **Hazardous area certifications** ATEX, CSA, IECEx

**Field of application:** The Raman Rxn-40 probe is a sealed immersion probe for in situ Raman spectroscopy of liquid-phase samples in a laboratory or process plant setting. The process connection for the Raman Rxn-40 can be swaged, compression-mounted, flange-mounted, or installed in an Endress+Hauser flow cell, and is NeSSI compatible. These versatile options allow for direct insertion in slip-streams, drain-values, reactors, circulation loops, blend headers, and inlet or outlet pipework.

### Features and specifications

Liquids

**Measuring principle**

Raman spectroscopy

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## Liquids

### Laser wavelength

532 nm, 785 nm, 1000 nm

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### Spectral coverage

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

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### Temperature

Temperature, Rxn-40 probe:  
-30 to 150 °C

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### Relative humidity

20-95% non-condensing

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### Maximum laser power into probehead (mW)

<499

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### Sample interface

Temperature, Rxn-40 mini configuration:

-30 to 120 °C (316L stainless steel)

-30 to 150 °C (C276 alloy)

-30 to 150 °C (Grade 2 Titanium )

Temperature ramp: ≤30 °C/min

Temperature, Rxn-40:

-30 to 120 °C (316L stainless steel)

-30 to 280 °C (C276 alloy)

-30 to 300 °C (Grade 2 Titanium )

Temperature ramp: ≤30 °C/min

Flange: ASME B16.5 and DIN EN1092 Type B flanges available upon request

Relative humidity: up to 95%, non-condensing

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## Liquids

### Pressure

Min pressure (Bara): Full vacuum (0 Bara) but not ultrahigh vacuum (UHV) where outgassing maybe a concern

Max pressure (Barg):  
68.5 (316L stainless steel)  
74.0 (C276 alloy)  
29.0 (Grade 2 titanium)

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### Wetted materials

Metal: C276 alloy, 316L stainless steel, or Grade 2 titanium  
Window: High-purity sapphire

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### Fiber optic cable

Cable sold separately

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### Length

Rxn-40 mini configuration immersible length: 36 mm  
Rxn-40: Maximum immersible length is dependent on material choice

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### Diameter (mm)

12.7, 19.05, 25.4

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### Hazardous area certifications

ATEX, CSA, IECEx

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