

## Raman immersion optic

Unlock the power of in situ laboratory analysis of liquids, slurries, and semi-solids



More information and current pricing:

[www.ch.endress.com/KIO1](http://www.ch.endress.com/KIO1)

### Benefits:

- Ideal for quick liquids, slurries & semi-solids measurements in the lab
- Superior signal performance
- Available in 1/4" and 1/2" diameters
- No user-adjustable parts
- Wettable components resist corrosion in harsh environments (including acidic solutions)

### Specs at a glance

- **Sampling probe compatibility** Raman Rxn-10 probe
- **Wetted materials** Metal: C276 alloy as standard (316L stainless steel or Grade 2 titanium upon request) Window: high-purity sapphire, proprietary compression fit non-brazed design

**Field of application:** The fixed focus design of the Raman immersion optic provides long-term measurement stability along with superior signal performance which is essential for transferable, high-performance Raman measurements. Compatible with the Rxn-10 probehead, the immersion optic uses no movable parts so it is always in focus. The Raman immersion optic is well-suited for use in reaction vessels, laboratory reactors, or process streams, and its wettable components resist corrosion in harsh environments.

## Features and specifications

Liquids

### Measuring principle

Raman spectroscopy

## Liquids

### Sampling probe compatibility

Raman Rxn-10 probe

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### Sample interface

Temperature range:

-30 to 120 °C (316L stainless steel)

-30 to 280 °C (C276 alloy)

-30 to 300 °C (Grade 2 titanium )

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### 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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### Length

Immersion Optic shaft length: ½" (12.7 mm) OD: 6, 12, or 18 in (152.4, 304.8, or 457.2 mm)

Immersion Optic shaft length: ¼" (6.35 mm) OD: 6 in (152.4 mm) or 8 in (203.2 mm)

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### Working distance (mm)

Short (S): 0

Long (L): 3

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### Operating range

VIS or NIR

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