

Raman immersion optic

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



More information and current pricing:

www.at.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

Sample interface

Temperature range:

-30 to 120 °C (316L stainless steel)

-30 to 280 °C (C276 alloy)

-30 to 300 °C (Grade 2 titanium)

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)

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

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)

Working distance (mm)

Short (S): 0

Long (L): 3

Operating range

VIS or NIR

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