

Raman Rxn5 process analyzer

Turn-key process Raman analyzer for quantitative chemical composition measurements



More information and current pricing:

www.casc.endress.com/KRXN5B

Benefits:

- Non-destructive analysis of gases, including homonuclear diatomics (H_2 , N_2 , O_2)
- Compact, smaller than most wall-mount GCs
- Can replace up to four traditional analyzers with a single base unit and four probes
- Rugged with minimal utility requirements, no sample transport, and no consumables (columns, valves, gases, pumps)
- Minimal analyzer technician time with maximum technician safety (no toxic gases are transported to the analyzer)
- Measures four streams simultaneously for fastest multi-channel results
- $-20^{\circ}C$ to $+50^{\circ}C$ operating environment

Specs at a glance

- **Laser wavelength** 532 nm
- **Spectral coverage** 150-3425 cm^{-1} (532 nm)

Field of application: The Raman Rxn5 process analyzer is an industry-leading, turn-key, laser-based analyzer powered by Kaiser Raman technology. It provides quantitative chemical composition measurements using Raman spectroscopy. The design of the Raman Rxn5 incorporates customer requirements for serviceability and hazard-area certification, provides a compact footprint, and minimizes utilities consumption. The high optical efficiency of the analyzer makes it ideal for typical gas-phase sample measurements.

Features and specifications

Gases**Measuring principle**

Raman spectroscopy

Laser wavelength

532 nm

Spectral coverage150-3425 cm⁻¹ (532 nm)**Spectral resolution**5 cm⁻¹ (532 nm)**Channels**

Up to four channels

Temperature

Operating: -20 to 50 °C

Relative humidity

0-90% RH, non-condensing

Input voltage

100-240 VAC, 50-60 Hz standard

Power consumption (W)

<300 (max)

<300 (typical start-up)

<200 (typical running)

Warm up time (minutes)

120

Unit dimensions (width x height x depth in mm)

457 x 834 x 254

Weight (kg)

612

Gases

Sampling probe compatibility

Raman Rxn-30

Automation interface

Modbus (TCP/IP or RS485)

Installation options

IP 56 wall-mounted, sealed/purged enclosure

Hazardous area certifications

ATEX, CSA, IECEX

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