

# Raman Rxn5 process analyzer

## Turn-key process Raman analyzer for quantitative chemical composition measurements



More information and current pricing:

[www.de.endress.com/KRXN5B](http://www.de.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

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**Gases****Measuring principle**

Raman spectroscopy

**Laser wavelength**

532 nm

**Spectral coverage**150-3425 cm<sup>-1</sup> (532 nm)**Spectral resolution**5 cm<sup>-1</sup> (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)**

&lt;300 (max)

&lt;300 (typical start-up)

&lt;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

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### **Automation interface**

Modbus (TCP/IP or RS485)

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### **Installation options**

IP 56 wall-mounted, sealed/purged enclosure

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### **Hazardous area certifications**

ATEX, CSA, IECEX

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