Raman Rxn5 process analyzer

Turn-key process Raman analyzer for quantitative chemical composition measurements

Benefits:
- Non-destructive analysis of gases, including homonuclear diatomics (H₂, N₂, O₂)
- Compact, smaller than most wall-mount gas chromatographs (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 faster multi-channel results
- -20 to +50 °C operating environment

Specs at a glance
- 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

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

**Spectral resolution**
5 cm\(^{-1}\) (532 nm)

**Channels**
Up to four channels

**Temperature**
Operating:
-20 to 50 °C / -4 to 122 °F
Recommended storage:
-30 to 60 °C / -22 to 140 °F

**Relative humidity**
0 to 90 %, non-condensing

**Input voltage**
90-264 VAC, 47-63 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)**
457 x 834 x 254 mm
18.00 x 32.84 x 10.00 inch

**Weight**
61.2 kg / 135 lbs
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

More information www.endress.com/KRXN5B