

## Raman calibration accessory

Fast, simple, and accurate wavelength and intensity calibration for Raman analyzers



More information and current pricing:

[www.be.endress.com/KHCA1](http://www.be.endress.com/KHCA1)

### Benefits:

- Robust calibration protocol
- Excellent system accuracy
- Unparalleled instrument precision
- Facilitates easy calibration transfer with minimal technical support required
- White Light NIST Traceable
- Compatible with Cyclohexane ASTM
- Chemical models instrument-independent

### Specs at a glance

- **Sampling probe compatibility** Raman Rxn-10 (with accessory optics) Raman Rxn-20 (with accessory optics) Raman Rxn-40 Raman Rxn-41 Raman Rxn-45

**Field of application:** Unlike many Raman instruments, Endress+Hauser Raman analyzers are powered by Kaiser Raman technology and utilize calibration protocols to ensure both wavelength and intensity accuracy and precision. The Raman calibration accessory offers an easy-to-use calibration protocol that provides accuracy and repeatability critical for qualitative and quantitative Raman analysis. Used routinely, this protocol facilitates calibration transfer between laboratory instruments and on-line process analyzers.

### Features and specifications

#### Measuring principle

Raman spectroscopy

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**Unit dimensions (width x height x depth in mm)**

Control unit: 12 x 270 x 43

Lamp head: 50 x 80 x 19

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**Weight (kg)**

Control Unit: 1.60

Lamp head: 0.10

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**Sampling probe compatibility**

Raman Rxn-10 (with accessory optics)

Raman Rxn-20 (with accessory optics)

Raman Rxn-40

Raman Rxn-41

Raman Rxn-45

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**Spectral intensity reference**

Tungsten-halogen

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**Spectral intensity calibration range**

HCA-532: 534.5 to 694.0 nm

HCA-785: 790.7 to 1074.5 nm

HCA-1000: 1012.6 to 1304.6 nm

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**Spectral intensity output repeatability (over any 4000 cm<sup>-1</sup> spectrum)**

Short Term: 2%

Over 100 hours: 2.65%

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**Adapter options**

Lamp Housing Adapters for sampling optics (NCO 0.4", 0.5", 2.5", 3" options)

Immersion (IO) 1/2", 1/4" adapter

bIO adapter (12 mm)

Fiber Adapters: FC and SMA

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**Electrical data**

Power Source: 100–240 VAC 50/60 Hz

Power Consumption: 22 W Maximum

CE Certified: Yes

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