GasRaman NOCH-1

Gas Phase Raman analyzer

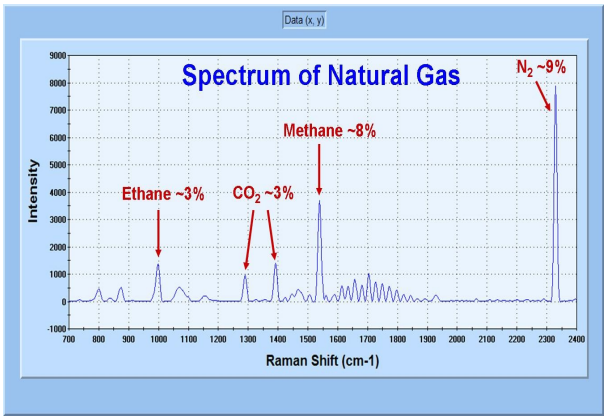
The GasRaman NOCH-1 is an advanced optical fiber-based Raman system for gas phase sample analyses. Based on Raman scattering, the instrument are suitable for H_2, N_2, O_2, CO_2, NO_2, CH_4 and other gases with active Raman signals.

The GasRaman NOCH-1 simultaneously detect multiple gases with linear responses to the concentration of the samples. The instrument can be used in laboratory or on-line process monitoring. It provides fast and robust quantitative analyses for applications in natural gas, biogas, petrochemical, chemical, polymers, nuclear industry, and biotech process analyses.

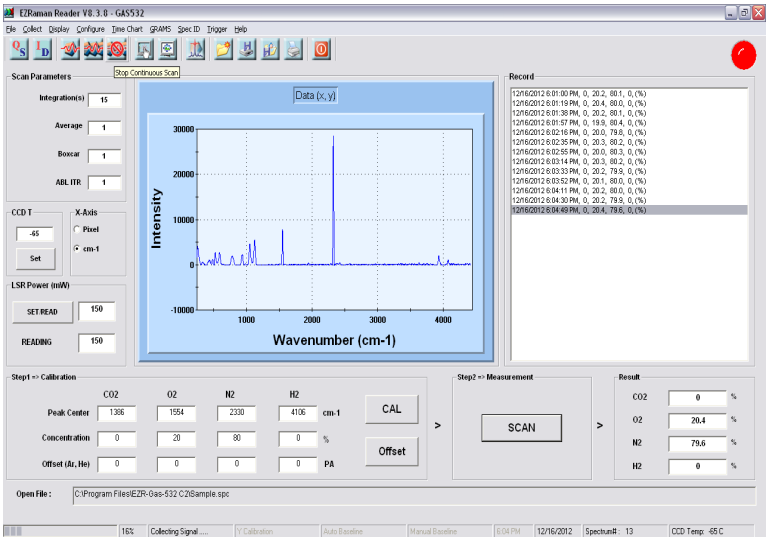
Features

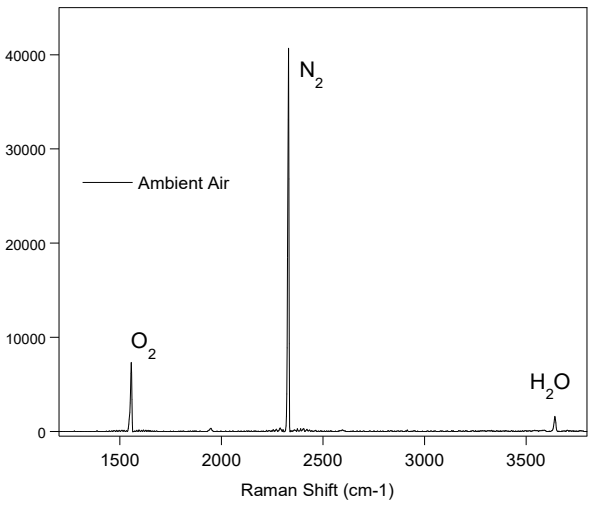
- 532nm DPSS laser excitation with high sensitivity
- High Rayleigh rejection fiber optic probe with various length options for convenience and remote sampling
- Enable multi-gas analysis like H_2, N_2, O_2, CO_2, NO_2 and other gases at atmospheric pressure to ~0.02% using FloGasCell
- Fast and robust quantitative analyses with RamanReader-G software.
- Long term repeatability, stability, and reliability
- Robust, stable, and little maintenance
- Compact and durable design for process gas phase Raman analysis

Sample Spectra



RamanReader-G software interface





- Control of the hardware and evaluation of the Raman spectra.
- Quantitative analyses of gas samples
- Raman software is GRAMS compatible
- Optional Symbion DX-GasRaman software for industrial process monitoring

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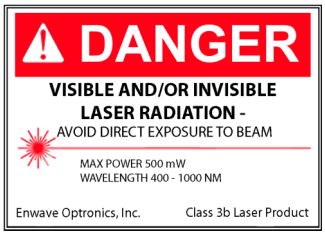
Gas Phase Raman analyzer — *GasRaman NOCH-1*

Specifications

Model	GasRaman NOCH-1
Excitation Laser (nm)	532nm Laser
Spectrometer	Spectral Coverage: ~250 nm to 4200 cm-1
CCD	TE Cooled CCD camera; 16 Bit Digization
SOFTWARE	RamanReader-G Gas Analysis Software
OPERATING TEMPERATURE	10ºC - 40ºC with Thermal Shutdown Protection
POWER REQUIREMENTS	DC power supply (work both for 110/220V)
DIMESIONS (L x W x H)"	17" x 17" x 9.5"
WARRANTY	One Year for Parts and Labor
Optional Accessories	▪ FloGasCell: 3x Sensitivity improvement flow through gas cell ▪ Optional Symbion-DX GasRaman for industrial on-line process monitoring integration

Specifications are subject to change without notice.

Appropriate safety guidelines should be followed when operating this instrument.
Complies with 21 CFR 1040.10 and 1040.11



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