

GXG-209 Laser Spectrum Multi-gas Analyzer



Application:

The GXG-209 laser spectrum multi-gas analyzer is a detection instrument used for the analysis of multiple gas components. It is an accurate, stable, reliable and rapid gas measurement system. The instrument uses laser spectroscopy technology, which can selectively detect a variety of gas and water vapor simultaneously. The instrument has the advantages of small size, convenient operation, fast measurement, high measurement accuracy, and wide range of gas types. It is especially suitable for the need to detect multiple gas components.

Features:

- ◆ Multiple gas detection and multi-parameter analyzing
 - ◆ Simultaneous detection of multiple gas, less than 5min measurement period
 - ◆ High accuracy, comparable to gas chromatograph
 - Methane measurement accuracy: $\pm 0.03\%$ CH₄
 - Ethylene, acetylene measurement accuracy: $\pm 0.5\text{ppm}$;
 - ◆ Accurate and reliable measurement results
 - The instrument has automatic pressure and temperature compensation function, and can compensate for the interference of the known gas ensuring accurate and reliable results
 - ◆ Long calibration period, 1-2 times per year
 - The instrument has self-diagnosis and self-correction functions to ensure the stability of measurements
 - ◆ Real-time operation, no need for preheating, calibration and other preparation time
 - ◆ No consumables and complicated routine required
 - ◆ Simple operation
 - 7 inch LCD touch screen
 - Quick touch response
 - ◆ Built-in high negative pressure sampling pump, auto remote sampling. No human intervention is required, reducing the risk of exposure to hazardous gases.
- Portable Size: 380 mm×360 mm×165 mm

Technical parameters:

	Measuring range	Permissible error
((CH ₄))	(0.00 ~ 1.00) % (1.00 ~ 100.00) %	$\pm 0.05\%$ 5.0% of \pm truth
(CO)	(0 ~ 100) $\times 10^{-6}$ (> 100 ~ 500) $\times 10^{-6}$ (> 500 ~ 10000) $\times 10^{-6}$	$\pm 4 \times 10^{-6}$ 5% of \pm truth 6% of \pm truth
(CO ₂)	(0.00 ~ 0.50) % (0.50 ~ 30.00) %	$\pm 0.10\%$ $\pm (0.08 + 5\% \text{ of true})$
(O ₂)	(0.0 ~ 25.0) %	$\pm 0.8\%$
(C ₂ H ₂)	(0.0 ~ 2.0) $\times 10^{-6}$ (> 2.0 ~ 5.0) $\times 10^{-6}$ (> 5.0 ~ 10.0) $\times 10^{-6}$ (> 10.0 ~ 20.0) $\times 10^{-6}$ > 20.0 $\times 10^{-6}$	$\pm 0.5 \times 10^{-6}$ $\pm 1 \times 10^{-6}$ $\pm 2 \times 10^{-6}$ $\pm 3 \times 10^{-6}$ $\pm 2\% \text{ FS}$
(C ₂ H ₄)	(0.0 ~ 2.0) $\times 10^{-6}$ (> 2.0 ~ 5.0) $\times 10^{-6}$ (> 5.0 ~ 10.0) $\times 10^{-6}$ (> 10.0 ~ 20.0) $\times 10^{-6}$ > 20.0 $\times 10^{-6}$	$\pm 0.5 \times 10^{-6}$ $\pm 1 \times 10^{-6}$ $\pm 2 \times 10^{-6}$ $\pm 3 \times 10^{-6}$ $\pm (1 + 10\% \text{ of true value})$
(C ₂ H ₆)	(0 ~ 100) $\times 10^{-6}$ (> 100 ~ 500) $\times 10^{-6}$ > 500 $\times 10^{-6}$	$\pm 4 \times 10^{-6}$ 5% of \pm truth 6% of \pm truth
(H ₂)	(0 ~ 10000) $\times 10^{-6}$	$\pm 3\% \text{ FS}$
(N ₂)	(0.0 ~ 99.9) %	$\pm 2\% \text{ FS}$

System interface:

