

# SpectraSensors J22 TDLAS Gas Analyzer for superior gas measurement performance

Proven technology for accurate and reliable measurement of H<sub>2</sub>O in natural gas

Expectations for natural gas quality analysis are constantly increasing to meet the highest levels of accuracy and reliability with low maintenance and low total cost of ownership. From this requirement, the J22 TDLAS Gas Analyzer was created. The highly developed algorithms of the TDLAS measurement plus the sophisticated diagnostics, monitoring, and verification concept of Endress+Hauser Heartbeat Technology™ offers a comprehensive process monitoring that cannot be found anywhere else. Fewer failures, lower operating costs and improved reliability provide the user with a sustainable competitive advantage, ensuring continuous and reliable measurements.

TDLAS was introduced to the natural gas industry by SpectraSensors establishing the rugged nature of the laser-based analyzers. For over 20 years, SpectraSensors, has been providing customers with exceptional TDLAS gas measurements. The extractive TDLAS H<sub>2</sub>O analyzer systems are best-in-class for meeting gas quality specifications, preventing pipeline corrosion, hydrate formation, and risk of explosion ensuring human safety and asset integrity while having very little maintenance. There are no interferences or detrimental effects from compressor oil, glycol, methanol, amine, H<sub>2</sub>S, or moisture slugs.



The J22 offers configuration flexibility with a variety of features to suit any application.

The J22 TDLAS Gas Analyzer's easy-to-replace components minimize downtime for the most efficient continuous analysis. Components are easily accessible and field-serviceable, allowing for quick replacements or upgrades. The simple-to-remove gas sample cells are designed to allow convenient cleaning and servicing. A variety of system options allow the J22 TDLAS Gas Analyzer to integrate perfectly

into any number of natural gas application locations. Configuration flexibility makes it the most versatile H<sub>2</sub>O analyzer on the market!

SpectraSensors, an Endress+Hauser company, is a leading global provider of laser-based process instrumentation. We design and manufacture TDLAS and Raman analyzers for on-line monitoring of H<sub>2</sub>O, H<sub>2</sub>S, CO, CO<sub>2</sub>, C<sub>2</sub>H<sub>2</sub>, NH<sub>3</sub>, H<sub>2</sub>, N<sub>2</sub>, and other components in the process gas streams. The company also offers Quenched Fluorescence analyzers for on-line, real-time measurements of O<sub>2</sub>. All analyzers are built to ensure the highest levels of efficiency with reliable measurements and low cost of operation. The analyzers are used in the natural gas, synthetic natural gas, LNG, gas processing, petrochemical, and refining industries.

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