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# Product News



**Manufacturer:** GE Panametrics  
**Product:** Aurora TDLAS Released  
**Category:** Product Release  
**Date:** 10/22/09  
**Subject:** Laser Based Measurement of Moisture in NG

Combining a new laser based sensor with an integrated sample system, [Aurora](#) from GE Sensing & Inspection Technologies offers a complete solution for moisture measurement in natural gas processing, transmission, and distribution. Aurora utilizes tunable diode laser absorption spectroscopy (TDLAS), to deliver reliable, accurate measurement data. With process information available in seconds, users can more efficiently manage their process, reduce downtime, and increase throughput of natural gas.

“Aurora represents a new measurement platform for our gas and moisture product line,” says Tim Povall, General Manager of Measurement Solutions at GE Sensing & Inspection Technologies. “GE’s expertise in moisture measurement technology coupled with extensive application knowledge in oil & gas allowed us to create a world class system to improve the operating efficiency for natural gas customers.”

Aurora utilizes a non-contact laser light, which is selective to water molecules in natural gas. With no sensor in contact with the gas, Aurora alerts operators of natural gas processing plants and pipeline systems when moisture concentrations are out of compliance within seconds and enables suppliers to be online faster following upset conditions. Once the process is corrected, Aurora assures the natural gas flowing back into the energy grid is sufficiently dry, meeting specifications in the minimum amount of time. Additionally, Aurora provides very accurate measurements of the moisture content in natural gas due to the highly selective TDLAS technology.

Aurora is an integrated system complete with sampling components to filter, and regulate the pressure and flow. The units are suitable for installation over a wide span of environmental conditions and hazardous environments. They carry cFMus, ATEX and IEC certifications for the global natural gas market. Magnetic induction buttons enable the Aurora to be programmed by a magnetic stylus or remotely by AuroraView software. A “Hot-Permit” is not required for programming in a hazardous area, resulting in reduced maintenance costs and with uncomplicated operation.