

# Instrumentation Principles



GREAT LAKES  
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Data Acquisition, Recorders and Loop Controllers. Flow, Pressure and Temperature Transmitters, pH, Conductivity, O<sub>2</sub>, Gas Density and DCS. Process gas and combustion solutions (GC, TDLS).



MEASUREMENTATION  
A Division of Yokogawa

Analytical system integration that includes turnkey solutions for process gas and liquid analysis applications.



Ambient air monitors, Continuous Emission Monitoring Systems, Gas Sample Probes, Gas Calibrators, Zero Air Systems, FTIR's, Process and Laboratory Mass Spectrometers. Turnkey system integration, SOLA Flare and Total Sulfur Analyzers



Thermal Mass Flow Meters, Vortex Flowmeters, Ultrasonic Flow Meters and Calibration systems.



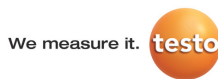
In-situ gas analysis, Hot / Wet monitoring systems, CEMS, TDL, Dust, Opacity and Flow



Gas sample probes, sample conditioning systems, gas filtration, NO<sub>x</sub> converters, gas chillers and sample pumps.



Absorbance spectroscopy for liquid or gas process streams, as well as physical parameters—color, calorific value, and purity. Sulfur, Total Sulfur and Tailgas monitoring systems.



Portable Emission Analyzers for Engines, Turbines, Boilers, Furnaces and process gas monitoring applications.



Differential Flow, Connected Solutions, Electromagnetic Flow Meters, Propeller Flow Meters.



Electric and Steam Traced tubing bundles, instrument enclosures, instrument stands



High Purity Water Process Analyzers. Feed Water, Steam & Condensate Analyzers. Potable Water / Pool & Sanitary Cooling Water Analyzers, Waste Water & Effluents.



RTD's, Thermocouples, Thermowells & Multipoint Bundles



Fuel Gas & Flare Combustion, Online XRF, Natural Gas Quality Analyzer Solutions



Refractometers, Dissolved Solids, X-Ray Thickness Measurements.



Valtek, Kammer, NAF and GS Control Valves. Digital & Pneumatic Positioners, Accessories and Intelligent Control Systems.



Liquids & Bulk Solids Level Solutions—Radar, Ultrasonic, Laser, Capacitance and Magnetostrictive Technologies. Magnetic Level Gauges, Point Level Switches, Pressure & Temperature Switches.



Drop-in plate retrofit damper drives, electric actuators, fluid power actuators, gearbox and valve accessories



Electronic Transmitters, Alarms, Signal Isolators, Pneumatic Converters and Interface Modules, Fieldbus Couplers & Power Supplies.



Generator Gas Analyzer and Controls. Generator Overheat Monitoring, Purge Gas Monitors



Humidity, Dewpoint, CO<sub>2</sub>, Ammonia. Barometric Pressure & Wind. TDL for O<sub>2</sub>, Moisture in Oil, Natural Gas.



Load Cells, Tension and Weighing Systems.



Temperature & Pressure Gauges, Diaphragm Seals, RTD's, T/C's and Thermowells



Flame and gas detectors



Combustible Gas and Toxic Gas Detection systems.



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