

GE Sensing

Applications

- Continuous emissions monitoring of flue gases
- Gas analysis of coal-fired boilers
- Moisture monitoring of compressed air
- Pressure, flow and moisture measurement for balance of plant operations
- Relative humidity and pressure measurement in gas turbines
- Flow and level measurement of cooling tower, tank and inlet channel water
- Moisture measurement in gas turbines, generators and transformers
- Custody transfer of natural gas
- Gas analysis of hydrogen cooled generators

Single Source for Proven Sensing Solutions

The power industry is constantly challenged by market competition to increase runtime and electrical output. Governmental requirements and rising raw material and fuel costs increase pressure to reduce operational expenses and emissions.

GE Sensing designs and manufactures sensors, sub-assemblies and instruments that provide power industry operators accurate and reliable measurements.

Sensing Solutions for the Power Industry

Druck, General Eastern and Panametrics have joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



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Fuel Handling

Accurate metering of fuel supplied to plant gas turbines or boilers is critical to maintain efficient operations.

Ultrasonic wetted flowmeters provide high-accuracy metering for custody transfer. Ultrasonic clamp on flowmeters allow for measurement without process shutdown or intervention, maximizing efficiency while minimizing safety hazards.



Boiler Operations

Boiler efficiency is critical to plant performance. GE Sensing offers accurate and stable oxygen and combustibles sensors. Our self-calibrating flue gas analyzers are used for boiler optimization and continuous emissions monitoring applications.

Differential pressure measurements are used to position boiler dampers that control air-fuel mixtures.



Balance of Plant

Gas, water and steam used in balance of plant operations require accurate flow, temperature, pressure and level measurements.

Whether measuring water flow in a cooling tower, moisture content in instrument air lines or extractive steam flow, GE Sensing offers a broad range of products to solve your balance of plant needs.



Turbines and Generators

Accurate metering of hydrogen is essential for generator safety and efficiency. Hydrogen maintains a high heat capacity and is used as a cooling gas for many generators.

GE Sensing offers H₂ and H₂O transmitters and analyzers.



Breakers and Transformers

Sulfur hexafluoride (SF₆) is used as a blanketing gas to insulate circuit breakers and high-voltage cables, transformers and switchgears. Even trace amounts of moisture can break down SF₆, leading to corrosion, arcing and hot spots.

Transformer oil serves as a dielectric and heat transfer medium. The dielectric properties of the oil are significantly reduced by the presence of moisture.

GE Sensing's moisture probes, sample systems and portable analyzers provide a robust solution for this application.



Test and Calibration

Power plants require a comprehensive range of field verification, calibration and laboratory reference equipment. GE Sensing test and calibration products include hand-held devices and primary standards for pressure, temperature, flow, humidity, voltage, current and frequency calibration.



Field Services

GE Sensing offers a full range of in-house and site support for calibration, repair and aftermarket services for pressure, flow and moisture and gas. Contact your local account manager for inquiries and quotes.

