

The image features a large, dark, triangular graphic on the right side, which serves as a background for the text. The background of the entire page is a photograph of an industrial facility at night, with various structures, pipes, and lights illuminated. The sky is dark, and the lights create a strong contrast. The overall aesthetic is industrial and professional.

AMETEK[®]
PROCESS INSTRUMENTS

ANALYZER GUIDE

Find the right solution for your process application

ametekpi.com

ABOUT US

AMETEK Process Instruments is a worldwide manufacturer of process analyzers and instrumentation.

At AMETEK Process Instruments, we focus our experience on designing innovative analyzers that help our customers reach higher levels of productivity and quality. We achieve this by finding ways to overcome the limitations of current methods of process monitoring, control and quality assurance. Through this focus we have created some of the most capable technologies in the world.

Our primary focus in analyzer design is reliability. We understand that you must have confidence that the analyzer will provide the correct information when you need it. It is a documented fact that many of our analyzers have been in service for well over 20 years.

Markets Served:



Core Competencies

- Analysis of moisture in hydrocarbon gases and high purity gases
- Burner air/fuel mixing control
- Chemical composition analysis of gases and liquids
- Coal fired power generation
- Combustion and furnace atmosphere control
- Combustion/process heating
- Contamination monitoring of high and ultra-high purity gases
- Heat treating atmosphere monitoring/control
- Natural gas processing and transmission
- Pharmaceutical solvent drying processes
- Emissions monitoring
- Quality monitoring of gas and liquid feedstocks
- Refining and petrochemical processes
- Sulfur recovery processes
- Trace analysis
- Vacuum analysis/residual gas analysis

Analyzer Technologies

- Gas chromatographs (GC)
- Gas gravitometers
- Manual and online chilled-mirror dew point analyzers
- Process mass spectrometers
- Quartz crystal microbalance (QCM) and electrolytic moisture analyzers
- Residual gas analyzers
- Tunable diode laser absorption spectroscopy (TDLAS)
- Ultraviolet and visible (UV-VIS) and infrared (IR) process analyzers
- X-ray transmission (XRT)
- Zirconium oxide analyzers

Unique Solutions – Custom Designs

No single solution fits all applications or processes. If a pre-engineered product does not meet your needs, we will work with you to custom-design an analyzer suited to your specific application. We pride ourselves on our ability, and willingness, to produce unique analyzers and solutions for our customers.

Service Commitment

With more than 100 factory-trained service technicians worldwide, our customer commitment continues well beyond start-up and commissioning. We offer a wide variety of service plans and resources to support our customers' installations anywhere in the world.

USER GUIDE

Find the right analyzer for your application. We've made it simple with our at-a-glance listings, separated into the key markets we supply.

GLOSSARY

| ABBREVIATION | DESCRIPTION |
|-------------------------------|---|
| AMU | Atomic mass unit |
| BTU | British thermal unit |
| CCR | Continuous catalyst regeneration |
| CEM | Continuous emission monitoring |
| GC-FID | Gas chromatography with flame ionization detector |
| GC-RGD | Gas chromatography with reduction gas detector |
| IR | Infrared |
| LNG | Liquefied natural gas |
| LPG | Liquefied petroleum gas |
| MAU | Milli-absorbance unit |
| NDIR | Nondispersive infrared |
| NGL | Natural gas liquids |
| P ₂ O ₅ | Phosphorus pentoxide |
| ppb | Parts per billion |
| ppbv | Parts per billion by volume |
| ppm | Parts per million |
| ppmv | Parts per million by volume |
| ppmw | Parts per million by weight |
| QCM | Quartz crystal microbalance |
| TCD | Thermal conductivity detector |
| TDLAS | Tunable diode laser absorption spectroscopy |
| TGTU | Tail gas treating unit |
| TRS | Total reduced sulfur |
| UV | Ultraviolet |
| ZrO ₂ | Zirconium oxide |

1 → **5100P**

2 → **RANGE**
0 to 2500 ppmv


3 → **ACCURACY**
±4 ppmv, or ±2% of reading, whichever is greater

4 → **TECHNOLOGY: TDLAS**

5 ← **MEASURES: Moisture**

6 ← **PROCESS**
Dehydration, Transmission Pipelines, Underground Storage

7 ← **APPLICATION**
Dehydration Efficiency, Moisture in Sales Gas



1. MODEL - Analyzer name

2. RANGE - Valid measurement concentrations

3. ACCURACY - Degree of measurement precision

4. TECHNOLOGY - Measurement technology used

5. MEASURES - Elements or compound detected

6. PROCESS - Chemical operation/operating unit

7. APPLICATION - Particular function

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HYDROCARBON PROCESSING

Optimized process solutions

With decades of experience in this industry, AMETEK Process Instruments offers an extensive range of gas and moisture analyzers for the hydrocarbon processing market.

Our unique technologies and advanced designs provide the critical measurements needed to optimize your process. This ensures a high-quality product produced in safe operating conditions.

To find out more or request a quote, visit our website today

HYDROCARBON PROCESSING

IPS-4

MEASURES: NH₃, H₂O, CO₂, SO₂, H₂S, NO, NO₂, NO_x, THC, ASTM color standards, Ethylene Glycol

RANGE
ppmv/ppmw to 100%, application dependent

ACCURACY
UV: ±1% of full scale range
IR: ±2% of full scale range
Dual Bench: ±2% of full scale typical

PROCESS
Sulfur Recovery, Emission Compliance, Ethylene Oxide, Sour Gas Treatment, SO₂ Recovery/H₂SO₄

APPLICATION
Feed Forward, Emissions, Ethylene Glycol QA/QC, Amine Efficiency, SO₂ Removal Efficiency



TECHNOLOGY: UV/NDIR

WDG-V

MEASURES: O₂, Combustibles, CH₄

RANGE
O₂: From 0-1% to 0-100%
Combustibles: 0-500 ppmv to 0-10,000 ppmv, 0-2% to 0-5%
Hydrocarbon: 0-5%

ACCURACY
O₂: ±0.75% of measured value or ±0.05%, whichever is greater
Combustibles: ±2% of full-scale output range
Hydrocarbon: ±5% of full scale output range

PROCESS
Fired Heaters, Power Generation

APPLICATION
Combustion Control in Ethane Reformers, Steam Boilers, Process Heaters, Thermal Oxidizers



TECHNOLOGY: ZrO₂, Catalytic Sensor

5000

MEASURES: H₂O

RANGE
0 to 1000 ppmv, trend indication above 1000 ppmv
Output capability in lb./mmscf and dew point temperature (requires sample line pressure as analog input; single point systems only)

ACCURACY
±1 ppmv or ±5% of reading, whichever is greater

PROCESS
Continuous Catalyst Regeneration

APPLICATION
Hydrogen Recycle Gas



TECHNOLOGY: QCM

888

MEASURES: H₂S, SO₂

RANGE
Standard: 0 to 1% SO₂; 0 to 2% H₂S
High Range: 0 to 2% SO₂; 0 to 4% H₂S

ACCURACY
±1% of full scale

PROCESS
Sulfur Recovery

APPLICATION
Tail Gas/Air Demand Ratio, Sulfur Pit Safety Monitoring



TECHNOLOGY: UV

HYDROCARBON PROCESSING

900

MEASURES: H₂S, SO₂, COS, CS₂

RANGE

| Species measured | Minimum full scale | Maximum full scale |
|------------------|--------------------|--------------------|
| H ₂ S | 5000 ppm | 100% |
| SO ₂ | 2500 ppm | 100% |
| CS ₂ | 5000 ppm | 100% |
| COS | 5000 ppm | 100% |

ACCURACY

SO₂ and H₂S: ±1% of full scale of standard ranges
 COS and CS₂: ±10% of full scale of standard ranges

PROCESS

Sulfur Recovery

APPLICATION

Tail Gas/Air Demand Ratio



TECHNOLOGY: UV

909

MEASURES: H₂S, SO₂, NO, NO₂, NO_x, NH₃, Optional O₂

RANGE

| Species measured | Minimum full scale | Maximum full scale |
|------------------|--------------------|--------------------|
| SO ₂ | 250 ppm | 100% |
| NO | 300 ppm | 100% |
| NO ₂ | 300 ppm | 100% |
| H ₂ S | 125 ppm | 100% |
| NH ₃ | 500 ppm | 100% |
| Cl ₂ | 500 ppm | 100% |

ACCURACY

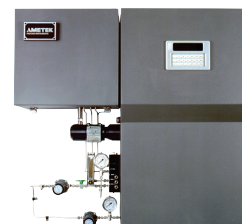
±1% full scale of standard ranges

PROCESS

Sulfur Recovery

APPLICATION

CEMS, Mass Flow Single Gas



TECHNOLOGY: UV

910

MEASURES: H₂S, SO₂, NO, NO₂, NO_x, NH₃, Optional O₂

RANGE

| Species measured | Minimum full scale | Maximum full scale |
|------------------|--------------------|--------------------|
| SO ₂ | 250 ppm | 100% |
| NO | 300 ppm | 100% |
| NO ₂ | 300 ppm | 100% |
| NO _x | 300 ppm | 100% |
| H ₂ S | 125 ppm | 100% |
| NH ₃ | 500 ppm | 100% |
| Cl ₂ | 500 ppm | 100% |

ACCURACY

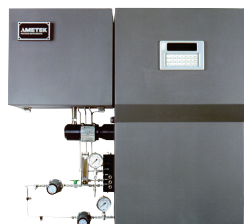
±1% full scale of standard ranges

PROCESS

Sulfur Recovery

APPLICATION

CEMS, Mass Flow Multi Gas



TECHNOLOGY: UV

914

MEASURES: H₂S, SO₂, NO, NO₂, NO_x, CO₂, O₂

Designed to meet regulatory reporting requirements for CEM

ACCURACY

Designed to meet customer specifications

PROCESS

Emissions Control

APPLICATION

Continuous Emission Monitoring System (cold-dry)



TECHNOLOGY: UV, NDIR, Paramagnetic

To find out more or request a quote, visit our website today

HYDROCARBON PROCESSING

919

MEASURES: H₂S, SO₂, NO, NO₂, NO_x, NH₃, Optional O₂

RANGE

| Species measured | Minimum full scale | Maximum full scale |
|------------------|--------------------|--------------------|
| SO ₂ | 250 ppm | 100% |
| NO | 300 ppm | 100% |
| NO ₂ | 300 ppm | 100% |
| H ₂ S | 125 ppm | 100% |
| NH ₃ | 500 ppm | 100% |
| Cl ₂ | 500 ppm | 100% |

ACCURACY

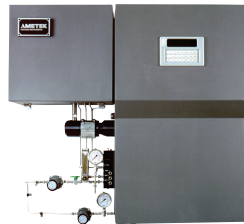
±1% full scale of standard ranges

PROCESS

Sulfur Recovery

APPLICATION

CEMS Single Gas (no mass flow)



TECHNOLOGY: UV

920

MEASURES: H₂S, SO₂, NO, NO₂, NO_x, NH₃, Optional O₂

RANGE

| Species measured | Minimum full scale | Maximum full scale |
|------------------|--------------------|--------------------|
| SO ₂ | 250 ppm | 100% |
| NO | 300 ppm | 100% |
| NO ₂ | 300 ppm | 100% |
| NO _x | 300 ppm | 100% |
| H ₂ S | 125 ppm | 100% |
| NH ₃ | 500 ppm | 100% |
| Cl ₂ | 500 ppm | 100% |

ACCURACY

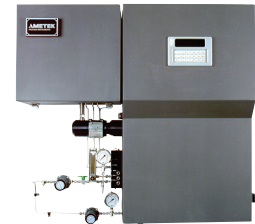
±1% full scale of standard ranges
±2.0% full scale of standard ranges for H₂S + NH₃ application

PROCESS

Sulfur Recovery

APPLICATION

CEMS Multi Gas (no mass flow)



TECHNOLOGY: UV

930

MEASURES: H₂S, SO₂

RANGE

| Species measured | Maximum full scale |
|------------------|--------------------|
| H ₂ S | 0-4% |
| SO ₂ | 0-2% |

(other ranges available on request)

ACCURACY

±1% full scale of standard ranges

PROCESS

Sulfur Recovery

APPLICATION

Sulfur Pit



TECHNOLOGY: UV

931/932

MEASURES: H₂S, Optional COS, CS₂, NH₃, SO₂, H₂, CO₂

RANGE

H₂S: ppm ranges to high percent levels
H₂: 0 to 5% or 0 to 10%
Other components and ranges are available upon request

PROCESS

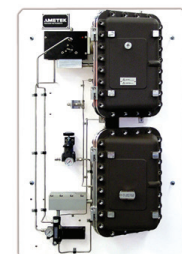
Sulfur Recovery

APPLICATION

Feed Forward/TGTU

ACCURACY

Standard range (UV): ±1% of full scale of standard ranges
Optional (TCD) H₂ sensor for TGTU applications: ±2% on a 0 to 10% range



TECHNOLOGY: UV/TCD

HYDROCARBON PROCESSING

934

MEASURES: H₂

RANGE

0 to 5% or 0 to 10%

ACCURACY

±2% on a 0-10% range
±4% on a 0-5% range

PROCESS

Sulfur Recovery

APPLICATION

TGTU Efficiency



TECHNOLOGY: TCD

9900 RM/WM

MEASURES: H₂S, SO₂, NO, NO₂, ClO₂, NOx, NH₃, Optional O₂

RANGE

| Species Measured | Single Species Minimum Full Scale | Multi-Species Minimum Full Scale |
|------------------|-----------------------------------|----------------------------------|
| SO ₂ | 10 ppm | 20 ppm |
| H ₂ S | 25 ppm | 100 ppm |
| NO | 50 ppm | 50 ppm |
| NO ₂ | 100 ppm | 100 ppm |
| NOx | n/a | 100 ppm |
| O ₂ | 0% | 25% |

ACCURACY

Better than ±1.0% of standard full scale range
O₂: ±0.1%

PROCESS

Emissions Control

APPLICATION

Continuous Emission Monitoring System



TECHNOLOGY: UV (opt. Paramagnetic/ZrO₂)

3050-OLV

MEASURES: H₂O

RANGE

0.1 to 2,500 ppmv
Readout capability in ppmw, lb/mmscf, mg/Nm³, and dew point temperature in °C or °F (requires process pressure as an input)

ACCURACY

±0.1 ppmv or ±10% of reading, whichever is greater

PROCESS

Continuous Catalyst Regeneration

APPLICATION

Hydrogen Recycle Gas



TECHNOLOGY: QCM

ta3000R

MEASURES: CO

RANGE

0 to 3 ppmv

ACCURACY

±10 ppbv or ±10% of reading, whichever is greater

PROCESS

PE/PP Production, Ethylene/Propylene Feedstock

APPLICATION

Catalyst Protection



TECHNOLOGY: GC-RGD

To find out more or request a quote, visit our website today

HYDROCARBON PROCESSING

ProLine

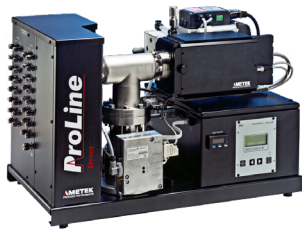
MEASURES: BTU values, H₂, C1-C7 alkanes, CO₂, CO, N₂, O₂, and other components m/z 1-200

RANGE
1 ppmv-100%

PROCESS
Emission Flare Compliance

ACCURACY
±0.5% of measured value for argon in air

APPLICATION
Flare BTU Monitor



TECHNOLOGY: Mass Spectrometer

WDG-IV UOP

MEASURES: O₂

RANGE
From 0-1% to 0-100%

PROCESS
Catalytic Reforming/Platforming, Continuous Catalyst Regeneration (CCR)

ACCURACY
±0.75% of measured value or ±0.05%, whichever is greater

APPLICATION
Oxygen Monitoring in CCR



TECHNOLOGY: ZrO₂

ProMaxion

MEASURES: BTU values, H₂, C1-C7 alkanes, CO₂, CO, N₂, O₂, and other components m/z 1-200

RANGE
1 ppmv-100%

PROCESS
Emission Flare Compliance

ACCURACY
±0.5% of measured value for argon in air

APPLICATION
Flare BTU Monitor



TECHNOLOGY: Mass Spectrometer

682T-HP

MEASURES: Sulfur

RANGE
Analysis range for sulfur of 0.02-6.0%

PROCESS
Blending Operations, Marine Fuel

ACCURACY
Repeatability: Typical 1 sigma precision for (100 sec.):
10% relative at 0.04 wt. % sulfur
5% relative at 0.1 wt. % sulfur
0.1% relative at 3.24 wt. % sulfur

APPLICATION
Sulfur Concentration in Crude Oil, Blending Operations, Marine Bunker Fuel



TECHNOLOGY: X-Ray Transmission

HYDROCARBON PROCESSING

WDG Insitu

MEASURES: O₂

RANGE

0-1% to 0-100%

ACCURACY

±1% of measured value or ±0.05%, whichever is greater

PROCESS

Fired Heaters, Power Generation

APPLICATION

Oxygen Monitoring in Power and Steam Boilers, Process Heaters, Thermal Oxidizers



TECHNOLOGY: ZrO₂

FlarePro

MEASURES: BTU values, H₂, C1-C7 alkanes, CO₂, CO, N₂, O₂, and other components m/z 1-200

RANGE

1 ppmv-100%

ACCURACY

±0.5% of measured value for argon in air

PROCESS

Emission Flare Compliance

APPLICATION

Flare BTU Monitor



TECHNOLOGY: Mass Spectrometer

5100HD

MEASURES: CO, CO₂, O₂, H₂O, H₂S

RANGE

ppmv to % level, application dependent

ACCURACY

±2% of reading (typical)

PROCESS

Ethylene Production, Refining, Emission Compliance

APPLICATION

Acetylene Conversion Rate, CO and CO₂ Levels in Furnace Decoking, Moisture in Continuous Catalyst Regeneration, Moisture in Hydrogen Recycle Gas, Moisture in Olefins (UOP Catalytic Regeneration), H₂S in Flare and Refinery Fuel Gas

Consult AMETEK for more potential applications



TECHNOLOGY: TDLAS

To find out more or request a quote, visit our website today

METALS & MINING

Ready to face the challenge

AMETEK Process Instruments' expertise delivers a solution that ensures safety, quality and efficiency in the high-heat environment of metals and mining.

Using our accurate technologies – including TDLAS lasers, mass spectrometers and UV analyzers – we provide the measurements you require, from furnace control to emissions reduction.

ProMaxion

MEASURES: H₂, O₂, CO, CO₂, N₂, Ar, CH₄, and other components m/z 1-200

RANGE
1 ppmv-100%

PROCESS
Steel Production

ACCURACY
±0.5% of measured value for argon in air

APPLICATION
Basic Oxygen, Electric Arc Furnace, Blast Furnace, VD



TECHNOLOGY: UV, Mass Spectrometer

ProLine

MEASURES: H₂, O₂, CO, CO₂, N₂, Ar, CH₄, and other components m/z 1-200

RANGE
1 ppmv-100%

PROCESS
Steel Production

ACCURACY
±0.5% of measured value for argon in air

APPLICATION
Basic Oxygen, Electric Arc Furnace, Blast Furnace, VD



TECHNOLOGY: Mass Spectrometer

WDG-HPII

MEASURES: O₂, Combustibles

RANGE
O₂: From 0-1% to 0-100%
Combustibles: From 0-2,000 ppmv to 0-10,000 ppmv or from 0-1% to 0-5%

PROCESS
Foundry/Metals Production Furnaces, Kilns

ACCURACY
O₂: ±0.75% of measured value or ±0.05%, whichever is greater
Combustibles: ±2% of full scale output range

APPLICATION
Combustion Control and Oxygen Monitoring in Blast Furnace Stoves, Reheat Furnaces and Lime Kilns; Excess Fuel Monitoring of Graphite Electrodes in Electric Arc Furnaces (with Excess Fuel Option)



TECHNOLOGY: ZrO₂, Catalytic Sensor

9900RM

MEASURES: SO₂, F₂, Uranium

RANGE
ppmv/ppmw to 100%, application dependent

PROCESS
Emissions Compliance

ACCURACY
Better than ±1.0% of standard full scale range

APPLICATION
Emissions



TECHNOLOGY: UV

IPS-4

MEASURES: SO₂, F₂, Uranium

RANGE
ppmv/ppmw to 100%,
application dependent

PROCESS
Emission Compliance

ACCURACY
UV: ±1% of full scale range
IR: ±2% of full scale range
Dual Bench: ±2% of full
scale typical

APPLICATION
Emissions



TECHNOLOGY: UV/NDIR

5100HD

MEASURES: CO, CO₂, O₂, H₂O,
CH₄, H₂S

RANGE
ppmv to % level, application
dependent

PROCESS
Operations

ACCURACY
±2% of reading (typical)

APPLICATION
Safety, Emissions, Operational
Efficiency Monitoring



TECHNOLOGY: TDLAS

WDG Insitu

MEASURES: O₂

RANGE
0-1% to 0-100%

PROCESS
Coke Ovens, Power Generation

ACCURACY
±1% of measured value or
±0.05%, whichever is greater

APPLICATION
Process Oxygen Monitoring
in Coke Ovens and Power and
Steam Boilers



TECHNOLOGY: ZrO₂

WDG-V

MEASURES: O₂, Combustibles,
CH₄

RANGE
O₂: From 0-1 to 0-100%
Combustibles: 0-1000 ppmv
with overrange 0-2,000 ppmv;
0-10,000 ppm; 0-2 to 0-5%
Hydrocarbon: 0-5%

PROCESS
Foundry/Metals Production
Furnaces, Power Generation

ACCURACY
O₂: ±0.75% of
measured value or ±0.05%,
whichever is greater
Combustibles: ±2% of full
scale output range
Hydrocarbon: ±5% of full
scale output range

APPLICATION
Combustion Control and Oxygen
Monitoring in Reheat Furnaces
and Power and Steam Boilers



TECHNOLOGY: ZrO₂, Catalytic Sensor

A worker wearing a white hard hat and a dark jacket is looking at a tablet computer in an industrial setting. The background is filled with complex machinery, including pipes, valves, and gauges, all in shades of grey and orange. The overall scene is dimly lit, with a blueish tint.

NATURAL GAS

Proven technologies for critical measurements

With extensive experience and continuous product development, AMETEK Process Instruments provides a comprehensive portfolio of specialized solutions, utilizing advanced technologies to provide vital analysis across the full range of natural gas processes.

From drilling to gas processing and transmission to the production of liquefied natural gas (LNG), we have the process instrumentation to ensure natural gas meets quality specifications and tariff requirements for gas treating, processing, transmission, and end use as a fuel or feedstock.

To find out more or request a quote, visit our website today

931/932

MEASURES: H₂S, Optional COS, CS₂, NH₃, SO₂, H₂, CO₂

RANGE

H₂S: ppmv ranges to high percent levels
 H₂: 0 to 5% or 0 to 10%
 Other components and ranges are available upon request

ACCURACY

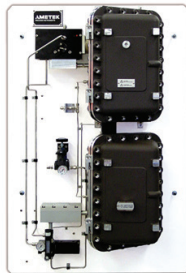
Standard range (UV): ±1% of full scale
 Optional (TCD) H₂ sensor for TGTU applications: ±2% on a 0 to 10% range; ±4% on a 0 to 5% range
 Optional (IR) sensor for THC, CO₂: application specific, consult factory

PROCESS

Drilling Wells, Sweetening, Transmission Pipelines, Underground Storage, LNG

APPLICATION

Amine and Glycol Contactor Efficiency, Transmission Sales Gas Quality, Custody Transfer Tariff Limits, Feed Gas Quality for LNG Liquefaction



TECHNOLOGY: UV/TCD/IR

933

MEASURES: H₂S, COS, CH₃SH

RANGE

H₂S: 0 to 3 ppmv min.; 0 to 100 ppmv max.
 COS: 0 to 15 ppmv min.; 0 to 500 ppmv max.
 MeSH: 0 to 9 ppmv min.; 0 to 250 ppmv max.

ACCURACY

Standard range: ±2% of full scale
 Low range: ±5% of full scale

PROCESS

Sweetening, Transmission Pipelines, LNG, Underground Storage

APPLICATION

Amine and Glycol Contactor Efficiency, Transmission Sales Gas Quality, Custody Transfer Tariff Limits, Feed Gas Quality for LNG Liquefaction



TECHNOLOGY: UV/IR

5100P

MEASURES: Moisture

RANGE

0 to 2500 ppmv

ACCURACY

±4 ppmv, or ±2% of reading, whichever is greater

PROCESS

Dehydration, Transmission Pipelines, Underground Storage

APPLICATION

Glycol Contactor Efficiency, Transmission Sales Gas Quality, Custody Transfer Tariff Limits



TECHNOLOGY: TDLAS

5100HD

MEASURES: CO, CO₂, O₂, H₂O, H₂S

RANGE

H₂O: 0.25 to 60 lbs
 CO₂: 0-50 ppmv to 0-100%
 H₂S: 0-300 ppmv to 0-100%

ACCURACY

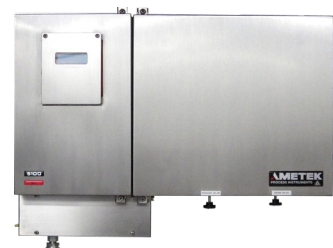
H₂O: ±4 ppmv or ±2% of reading, whichever is greater
 CO₂: range dependent
 H₂S: range dependent

PROCESS

Dehydration, Sweetening, Transmission Pipelines, Underground Storage, LNG

APPLICATION

Amine and Glycol Contactor Efficiency, Transmission Sales Gas Quality, Custody Transfer Tariff Limits, Feed Gas Quality for LNG Liquefaction



TECHNOLOGY: TDLAS

5100

MEASURES: CO₂, H₂O, H₂S

RANGE

0.25-60 lb/MMscf/4-1900 mg/m³
(5 to 2500 ppmv)
Other ranges available

ACCURACY

±4 ppmv or ±2% of reading,
whichever is greater

PROCESS

Sweetening, Dehydration,
Transmission Pipelines,
Underground Storage

APPLICATION

Amine and Glycol Contactor
Efficiency, Transmission Sales Gas
Quality, Custody Transfer Tariff Limits



TECHNOLOGY: TDLAS

241CE II

MEASURES: Hydrocarbon
Dew Point Temperature

RANGE

Cooling capability: Typically 60°C
below the temperature at the
analyzer installation
Highest measurable dew point:
Application dependent, typically
15°C below the temperature at
the analyzer installation

ACCURACY

Hydrocarbon dew point
temperature ±1°C

PROCESS

Dehydration, Drilling/Wells,
Transmission Pipelines, LPG & NGL
Fractionation

APPLICATION

Glycol Contactor Efficiency,
Dryer Efficiency & Breakthrough,
Custody Transfer Tariff Limits,
Liquids Separation



TECHNOLOGY: Chilled Mirror

Chanscope II

MEASURES: H₂O and
Hydrocarbon Dew Point
Temperature

RANGE

Dew point temperature ranges:
-29°C to ambient, with liquid
propane; -62°C to ambient, with
liquid carbon dioxide; -129°C to
ambient, with optional liquid
nitrogen chiller

ACCURACY

±0.2°C at 40°C to -90°C

PROCESS

Dehydration, Transmission
Pipelines, LPG & NGL
Fractionation, Underground
Storage, Drilling/Wells

APPLICATION

Glycol Contactor Efficiency,
Transmission Sales Gas Quality,
Custody Transfer Tariff Limits,
Liquids Separation



TECHNOLOGY: Chilled Mirror

Model 13

MEASURES: H₂O and Hydrocarbon
Dew Point Temperature

RANGE

Dew point temperature
range dependent on which
thermometer is chosen

ACCURACY

±0.25°C

PROCESS

Dehydration, Transmission
Pipelines, LPG & NGL
Fractionation, Underground
Storage, Drilling/Wells

APPLICATION

Glycol Contactor Efficiency,
Transmission Sales Gas Quality,
Custody Transfer Tariff Limits,
Liquids Separation



TECHNOLOGY: Chilled Mirror

3050-OLV

MEASURES: H₂O

RANGE

0.1 to 2,500 ppmv
Readout capability in ppmw, lb/mmscf, mg/Nm³, and dew point temperature in °C or °F (requires process pressure as an input)

ACCURACY

±0.1 ppmv or ±10% of reading, whichever is greater

PROCESS

Dehydration, Transmission Pipelines, Underground Storage

APPLICATION

Glycol Contactor Efficiency, Transmission Sales Gas Quality, Custody Transfer Tariff Limits



TECHNOLOGY: QCM

3050-SLR

MEASURES: H₂O

RANGE

0.1 to 100 ppmv.
Readout capability in ppmw, lb/mmscf, mg/Nm³, and dew point temperature in °C or °F (requires process pressure as an input)

ACCURACY

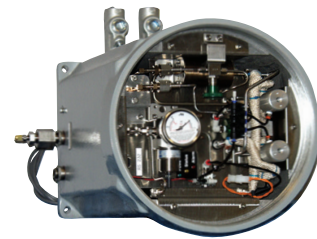
±0.03 ppmv or ±10% of reading, whichever is greater

PROCESS

Dehydration, Transmission Pipelines, LNG

APPLICATION

Glycol Contactor Efficiency, Dryer Efficiency & Breakthrough, Custody Transfer Tariff Limits, Feed Gas Quality for LNG Liquefaction



TECHNOLOGY: QCM

3050-DO

MEASURES: H₂O

RANGE

0.02 to 100 ppmv
Readout capability in ppmw, lb/mmscf, mg/Nm³, and dew point temperature in °C or °F (requires process pressure as an input)

ACCURACY

±0.02 ppmv or ±10% of reading, whichever is greater

PROCESS

Dehydration, LPG & NGL Fractionation, LNG

APPLICATION

Dryer Efficiency and Breakthrough



TECHNOLOGY: QCM

3050-TE

MEASURES: H₂O

RANGE

0.01 to 100 ppmv
Readout capability in ppmw, lb/mmscf, mg/Nm³, and dew point temperature in °C or °F (requires process pressure as an input)

ACCURACY

±0.01 ppmv or ±10% of reading, whichever is greater

PROCESS

LNG, LPG & NGL Fractionation

APPLICATION

Feed Gas Quality to Turbo Expander



TECHNOLOGY: QCM

303B

MEASURES: H₂O

RANGE

0 to 1000 ppmv
(0-2000 ppmv range with reduced sample flow)

ACCURACY

±0.5 ppmv or ±5.0% of reading, whichever is greater

PROCESS

Dehydration, Transmission Pipelines, Underground Storage, LNG

APPLICATION

Glycol Contactor Efficiency, Transmission Sales Gas Quality, Custody Transfer Tariff Limits, Feed Gas Quality for LNG Liquefaction



TECHNOLOGY: P₂O₅

IPS-4

MEASURES: HC, NH₃, H₂O, CO₂, Cl₂, FeCl₃, CH₃I, SO₂, H₂S, NO, NO₂, ClO₂, NOx, H₂S in rich amine, ASTM color standards, Bisphenol-A, Ethylene Glycol

RANGE

ppmv/ppmw to 100%, application dependent

ACCURACY

UV: ±1% of full scale range
IR: ±2% of full scale range
Dual Bench: ±2% of full scale typical

PROCESS

Gas Sweetening

APPLICATION

Rich Amine



TECHNOLOGY: UV/NDIR

PHARMACEUTICAL

The remedy for your process requirements

Pharmaceutical applications require outstanding sensitivity and stability combined with accurate real-time monitoring.

AMETEK Process Instruments delivers field-proven systems that provide the multi-component analysis required for fermentation process control and drying while offering compact designs and ease of operation.

WDG-V

MEASURES: O₂, Combustibles, CH₄

RANGE

O₂: From 0-1% to 0-100%
 Combustibles: From 0-2,000 ppmv to 0-10,000 ppmv or from 0-1% to 0-5%
 Hydrocarbon: From 0-1% to 0-5%

ACCURACY

O₂: ±0.75% of measured value or ±0.05%, whichever is greater
 Combustibles: ±2% of full scale output range
 Hydrocarbon: ±5% of full scale output range

PROCESS

Fired Heaters, Power and Steam Generation

APPLICATION

Combustion Control in Process Heaters, Power and Steam Boilers, Thermal Oxidizers



TECHNOLOGY: ZrO₂, Catalytic sensor

5100HD

MEASURES: O₂, H₂O

RANGE

H₂O: ppmv to % level, application dependent
 O₂: 0-5%; 0-25%

ACCURACY

O₂: ±0.2%

PROCESS

Drying Operations

APPLICATION

Moisture in Final Product, Oxygen Concentration in Dryers



TECHNOLOGY: TDLAS

WDG-HPII

MEASURES: O₂, Combustibles

RANGE

O₂: From 0-1% to 0-100%
 Combustibles: From 0-2,000 ppmv to 0-10,000 ppmv or from 0-1% to 0-5%

ACCURACY

O₂: ±0.75% of measured value or ±0.05%, whichever is greater
 Combustibles: ±2% of full scale output range

PROCESS

Lime Kilns

APPLICATION

Combustion Control



TECHNOLOGY: ZrO₂

ProMaxion

MEASURES: N₂, O₂, CO₂, CO, Argon, Methanol, Ethanol, Organic Solvents, VOCs, and other components m/z 1-200

RANGE

1 ppmv-100%; 25 ppbv to 10 ppmv with membrane inlet

ACCURACY

±0.5% of measured value for argon in air

PROCESS

Safety-Health, Endpoint Detection

APPLICATION

Ambient Air, Solvent Drying, Reaction Monitoring



TECHNOLOGY: Mass Spectrometer

ProLine

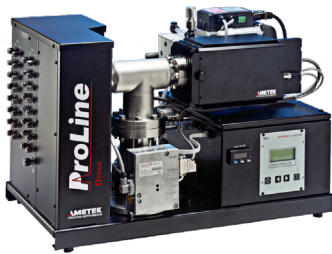
MEASURES: N₂, O₂, CO₂, CO, Argon, Methanol, Ethanol, Organic Solvents, VOCs, and other components m/z 1-200

RANGE
1 ppm-100%

PROCESS
Safety-Health, Endpoint Detection

ACCURACY
±0.5% of measured value for argon in air

APPLICATION
Ambient Air, Solvent Drying, Reaction Monitoring



TECHNOLOGY: Mass Spectrometer



POWER & STEAM GENERATION

The power to control your process

Controlling the ratio of air and combustibles in combustion is key to safety, fuel efficiency and cost-effectiveness.

With a wealth of experience in providing power generation solutions, AMETEK Process Instruments has developed a range of products using proven zirconium oxide oxygen sensing for accurate combustion control.

To find out more or request a quote, visit our website today

POWER & STEAM GENERATION

WDG-V Blowback

MEASURES: O₂, Combustibles,
CH₄

RANGE

O₂: From 0-1% to 0-100%
Combustibles: 0-1000 ppmv
with overrange 0-2,000 ppmv
to 0-10,000 ppmv, 0-2 to 0-5%
Hydrocarbon: 0-5%

ACCURACY

O₂: ±0.75% of measured value
or ±0.05%, whichever is greater
Combustibles: ±2% of full scale
output range
Hydrocarbon: ±5% of full scale
output range

PROCESS

Coal Fired Boilers, High
Particulate/Dusty Processes

APPLICATION

Combustion Control for Boilers



TECHNOLOGY: ZrO₂, Catalytic Sensor

WDG Insitu

MEASURES: O₂

RANGE

From 0-1% to 0-100% O₂

ACCURACY

±1% of measured value or
±0.05%, whichever is greater

PROCESS

Power and Steam Boilers,
Recovery Boilers

APPLICATION

Oxygen Monitoring in Boilers,
Stratification



TECHNOLOGY: ZrO₂

WDG 1200/1210 Insitu

MEASURES: O₂

RANGE

0-1% up to 0-25% v/v O₂

ACCURACY

Accuracy: ±1% of measured
value or ±0.05%, whichever
is greater

PROCESS

Power and Steam Boilers

APPLICATION

Oxygen Monitoring in Boilers



TECHNOLOGY: ZrO₂

WDG-HPII

MEASURES: O₂, Combustibles

RANGE

O₂: from 0-1% to 0-100%
Combustibles: from 0-2,000
ppmv to 0-10,000 ppmv or
from 0-1% to 0-5%

ACCURACY

O₂: ±0.75% of measured
value or ±0.05%, whichever
is greater
Combustibles: ±2% of full
scale output range

PROCESS

Coal Fired Boilers, Waste Wood
Boilers, Biofuel Boilers, Recovery
Boilers, High Particulate/Dusty
Processes

APPLICATION

Combustion Control



TECHNOLOGY: ZrO₂, Catalytic Sensor

POWER & STEAM GENERATION

WDG-V

MEASURES: O₂, Combustibles, CH₄

RANGE

O₂: From 0-1% to 0-100%
Combustibles: 0-1000 ppmv with overrange 0-2,000 ppmv to 0-10,000 ppmv, 0-2 to 0-5%
Hydrocarbon: 0-5%

ACCURACY

O₂: ±0.75% of measured value or ±0.05%, whichever is greater
Combustibles: ±2% of full scale output range
Hydrocarbon: ±5% of full scale output range

PROCESS

Power and Steam Boilers

APPLICATION

Combustion Control



TECHNOLOGY: ZrO₂, Catalytic Sensor

5100HD

MEASURES: CO, CH₄, O₂

RANGE

ppmv to % level, application dependent

ACCURACY

CH₄ and CO: ±2% of reading
O₂: ±0.2%

PROCESS

Combustion

APPLICATION

Safety and Operational Efficiency Monitoring



TECHNOLOGY: TDLAS

3050-OLV

MEASURES: H₂O

RANGE

0.1 to 2,500 ppmv
Readout capability in ppmw, lb/mmscf, mg/Nm³, and dew point temperature in °C or °F (requires process pressure as an input)

ACCURACY

±0.1 ppmv or ±10% of reading, whichever is greater

PROCESS

Hydrogen Cooled Electric Generators

APPLICATION

Moisture Control



TECHNOLOGY: QCM

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PULP & PAPER, GLASS, CEMENT & LIME

Expertise in action

AMETEK Process Instruments' extensive knowledge of combustion control and emissions monitoring plays a key role in industries such as pulp and paper, glass, and cement and lime.

Our trusted zirconium oxide (ZrO_2) analyzers provide important oxygen measurements, while we offer critical measurements for sulfur dioxide and NO_x waste products.

CMFA-P2000

MEASURES: Excess O₂ or Excess Fuel

RANGE

100% to 0.1% excess O₂ and 0.1% to 50% excess fuel

ACCURACY

Excess O₂: ±2% of measured value or ±0.1%, whichever is greater
 Excess Fuel: ±5% of measured value or ±0.25%, whichever is greater
 Specifications based on 0-15% range, natural gas

PROCESS

Fiberglass Strand and Glass Container Melt Tanks/Forehearth, Ribbon Burners on Flame Treating Lines, Brazing Machines (pre-heat, flux, and braze)

APPLICATION

Portable Oxygen and Air/Fuel Mixture Monitoring to Control Product Quality in Glass & Fiber Manufacturing



TECHNOLOGY: ZrO₂

5100HD

MEASURES: CO, CH₄, O₂

RANGE

ppmv to % level, application dependent

ACCURACY

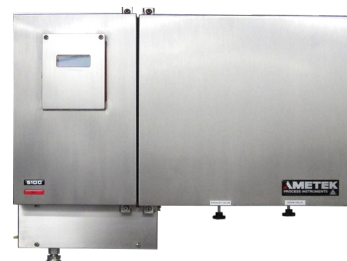
±2% of reading

PROCESS

Combustion

APPLICATION

Safety and Operational Efficiency Monitoring



TECHNOLOGY: TDLAS

PreMix 2000

MEASURES: Excess O₂ or Excess Fuel

RANGE

All or selected portions of the range from 100% to 0.1% excess O₂ and 0.1% to 50% excess fuel

ACCURACY

Excess O₂: ±2% of measured value or ±0.1%, whichever is greater
 Excess Fuel: ±5% of measured value or 0.25%, whichever is greater

PROCESS

Fiberglass Spinner Blowers/Day Pots, Technical Glass Forming Furnaces

APPLICATION

Control of Product Quality via Oxygen and Air/Fuel Mixture Monitoring in Glass and Fiber Manufacturing



TECHNOLOGY: ZrO₂

WDG-HPII

MEASURES: O₂, Combustibles

RANGE

O₂: From 0-1% to 0-100%
 Combustibles: From 0-2,000 ppmv to 0-10,000 ppmv or from 0-1% to 0-5%

ACCURACY

O₂: ±0.75% of measured value or ±0.05%, whichever is greater
 Combustibles: ±2% of full scale output range

PROCESS

Kilns, Power Generation, Process Furnaces

APPLICATION

Combustion Control and Oxygen Monitoring in Rotary Kilns, Power and Steam Boilers, Black Liquor Recovery Boilers, Multiple Hearth Furnaces, Glass Melting Tank Exhaust



TECHNOLOGY: ZrO₂, Catalytic Sensor

IPS-4

MEASURES: SO₂, NO_x, ClO₂, CO

RANGE
ppmv to 100%

PROCESS
Emission Compliance

ACCURACY
UV: ±1% of full scale range
IR: ±2% of full scale range
Dual Bench: ±2% of full scale typical

APPLICATION
Pulp Bleaching,
Emissions Compliance



TECHNOLOGY: UV/NDIR

9900RM

MEASURES: SO₂, NO_x, ClO₂

RANGE
ppmv/ppmw to 100%,
application dependent

PROCESS
Emission Compliance

ACCURACY
Better than ±1.0% of standard
full scale range

APPLICATION
Emissions



TECHNOLOGY: UV

9900WM

MEASURES: SO₂, TRS, ClO₂

RANGE
ppmv/ppmw to 100%,
application dependent

PROCESS
Emission Compliance

ACCURACY
Better than ±1.0% of standard
full scale range

APPLICATION
Emissions



TECHNOLOGY: UV

WDG-V Blowback

MEASURES: O₂, Combustibles,
CH₄

RANGE
O₂: From 0-1% to 0-100%
Combustibles: 0-1000 ppmv
with overrange 0-2,000 ppmv
to 0-10,000 ppmv, 0-2 to 0-5%
Hydrocarbon: 0-5%

PROCESS
Fired Heaters, Process Generation,
Process Furnaces, Kilns

ACCURACY
O₂: ±0.75% of measured
value or ±0.05%, whichever
is greater
Combustibles: ±2% of full
scale output range
Hydrocarbon: ±5% of full
scale output range

APPLICATION
Combustion Control



TECHNOLOGY: ZrO₂, Catalytic Sensor

SEMICONDUCTOR, LCD/OLED DISPLAY MANUFACTURING & INDUSTRIAL GASES

Accurate monitoring of moisture and impurity contamination

Moisture contamination in semiconductor manufacturing is a major cause of defects and process variations, significantly impacting yield.

This makes moisture analysis essential, both for cleanroom areas where semiconductor wafers are produced and stored, and for the ultra-high purity gases used in manufacturing processes.

A variety of methods are available for measuring moisture from high levels to trace amounts. Many manufacturing applications rely on trace measurements of water vapor to ensure process quality is maintained.

5910

MEASURES: H₂O

RANGE

0 to 150 ppbv
Trend indication to 1000 ppbv

PROCESS

Gas Purification

ACCURACY

±100 ppbv or ±10% of the reading, whichever is greater

APPLICATION

Quality



TECHNOLOGY: QCM

5920

MEASURES: H₂O

RANGE

0 to 150 ppbv
Trend indication to 1000 ppbv

PROCESS

Gas Purification

ACCURACY

±1 ppbv or ±10% of the reading, whichever is greater

APPLICATION

Quality



TECHNOLOGY: QCM

ta7000

MEASURES: H₂, CO, CO₂, CH₄, NMHC

RANGE

0 to 199.9 ppbv

PROCESS

Gas Purification

ACCURACY

±1 x LDL or ±10% of reading, whichever is greater

APPLICATION

Quality



TECHNOLOGY: GC-RGD/FID

ta5000

MEASURES: CO, CO₂, H₂, CH₄, NMHC

RANGE

RGD: 0-3 ppmv
FID: 0-5 ppmv

PROCESS

Gas Purification

ACCURACY

±1 x LDL or ±10% of reading, whichever is greater

APPLICATION

Quality



TECHNOLOGY: GC-RGD/FID

5800

MEASURES: H₂O

RANGE

0.02 to 100 ppmv
Indicates trend to 1000 ppmv

PROCESS

Gas Purification

APPLICATION

Quality

ACCURACY

±20 ppbv or ±5% of the reading, whichever is greater



TECHNOLOGY: QCM

5830

MEASURES: H₂O

RANGE

0 to 100 ppmv
Indicates trend to 1000 ppmv

PROCESS

Gas Purification

APPLICATION

Quality

ACCURACY

±20 ppbv or ±10% of the reading, whichever is greater



TECHNOLOGY: QCM

3050-AMS

MEASURES: H₂O

RANGE

0.035 to 100 ppmv
Indicates trend to 1000 ppmv

PROCESS

Gas Purification

APPLICATION

Quality

ACCURACY

±0.035 ppmv or ±10%, whichever is greater



TECHNOLOGY: QCM

3050-AM

MEASURES: H₂O

RANGE

0.1 to 100 ppmv
Indicates trend to 1000 ppmv

PROCESS

Gas Purification

APPLICATION

Quality

ACCURACY

±0.1 ppmv or ±10%, whichever is greater



TECHNOLOGY: QCM

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3050-RM

MEASURES: H₂O

RANGE

0.1 to 2,500 ppmv
Readout capability in ppmw, lb/mmscf, mg/Nm³, and dew point temperature in °C or °F

PROCESS

Gas Purification

APPLICATION

Quality

ACCURACY

±0.1 ppmv or ±10%, whichever is greater



TECHNOLOGY: QCM

2850

MEASURES: H₂O

RANGE

0.1 to 1000 ppmv

PROCESS

Gas Purification

ACCURACY

±0.05 ppmv or ±5% of the reading, whichever is greater

APPLICATION

Quality



TECHNOLOGY: QCM

ta3000

MEASURES: CO, CO₂, H₂, CH₄, NMHC

RANGE

RGD: 0-3 ppmv
FID: 0-5 ppmv

PROCESS

Gas Purification

APPLICATION

Quality

ACCURACY

±10 ppbv or ±10% of reading, whichever is greater



TECHNOLOGY: GC-RGD/FID

TM2000

MEASURES: O₂

RANGE

0.1 ppmv O₂ to 100% O₂

PROCESS

Air Separation, Inert Gas Purity (N₂, Ar, CO₂, He, etc.), Blanket/Purge Gases, Glove Box Applications, Cryogenic Gas Generation, Atmospheric Oven/Furnace Control, UV Curing Ovens

ACCURACY

± 1% of reading or 0.02% absolute, whichever is greater

APPLICATION

Trace Oxygen Monitoring for Quality Control of Inert Gas and High Purity Streams



TECHNOLOGY: ZrO₂

LC-D

MEASURES: All components
m/z 1-300

RANGE

Total Pressure $\leq 10^{-5}$ torr

ACCURACY

Source sensitivity (Faraday cup): 2×10^{-4} amps per Torr at detector (measured with nitrogen at mass 28) with peak width = 0.5 at 10% height and 1×10^{-3} amps emission current

PROCESS

Chemical Vapor Deposition, Physical Vapor Deposition, Rapid Thermal Processing

APPLICATION

Quality



TECHNOLOGY: Mass Spectrometer

CG1000

MEASURES: O₂

RANGE

0.1 ppmv O₂ to 100% O₂

ACCURACY

$\pm 2\%$ of reading or 0.05% absolute, whichever is greater

PROCESS

Rapid Thermal Processing (RTP), Air Separation, Inert Gas Purity (N₂, Ar, CO₂, He, etc.), Blanket/Purge Gases, Glove Box Applications, Cryogenic Gas Generation, Atmospheric Oven/Furnace Control, UV Curing Ovens

APPLICATION

Trace Oxygen Monitoring for Quality Control of Inert Gas and High Purity Streams



TECHNOLOGY: ZrO₂

Dymaxion

MEASURES: All components
m/z 1-300

RANGE

1-100, 1-200, 1-300 AMU

ACCURACY

Source sensitivity (Faraday cup): 2×10^{-4} amps per Torr at detector (measured with nitrogen at mass 28) with peak width = 0.5 at 10% height and 1×10^{-3} amps emission current

PROCESS

Chemical Vapor Deposition, Physical Vapor Deposition, Rapid Thermal Processing

APPLICATION

Quality



TECHNOLOGY: Mass Spectrometer

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OTHER APPLICATIONS

Versatile, customized solutions

Our expertise and industry-leading technologies can be used in a range of applications across a variety of industries. If your process demands accurate, high-quality gas analysis, backed by global support and servicing, AMETEK Process Instruments delivers.

Additionally, to ensure accurate and reliable process measurements, a representative sample of the process fluid must be delivered to the analyzer. A well-designed sample conditioning system will consider filtration, temperature, pressure, flow rate and environmental conditions. Installations may require a full analyzer shelter including analyzers, sample systems, calibration gases, HVAC controls, and power distribution.

Contact AMETEK Process Instruments or your local AMETEK representative for more information on our analyzers.

WellPro

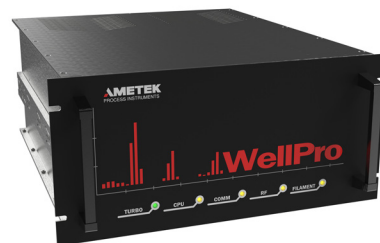
MEASURES: Components
m/z 1-200 AMU

RANGE
1 ppmv-100%

PROCESS
Well Logging

ACCURACY
±0.5% of measured value for
argon in air

APPLICATION
Well Logging/Drilling



TECHNOLOGY: Mass Spectrometer

CABINETS, SHELTERS & HOUSES

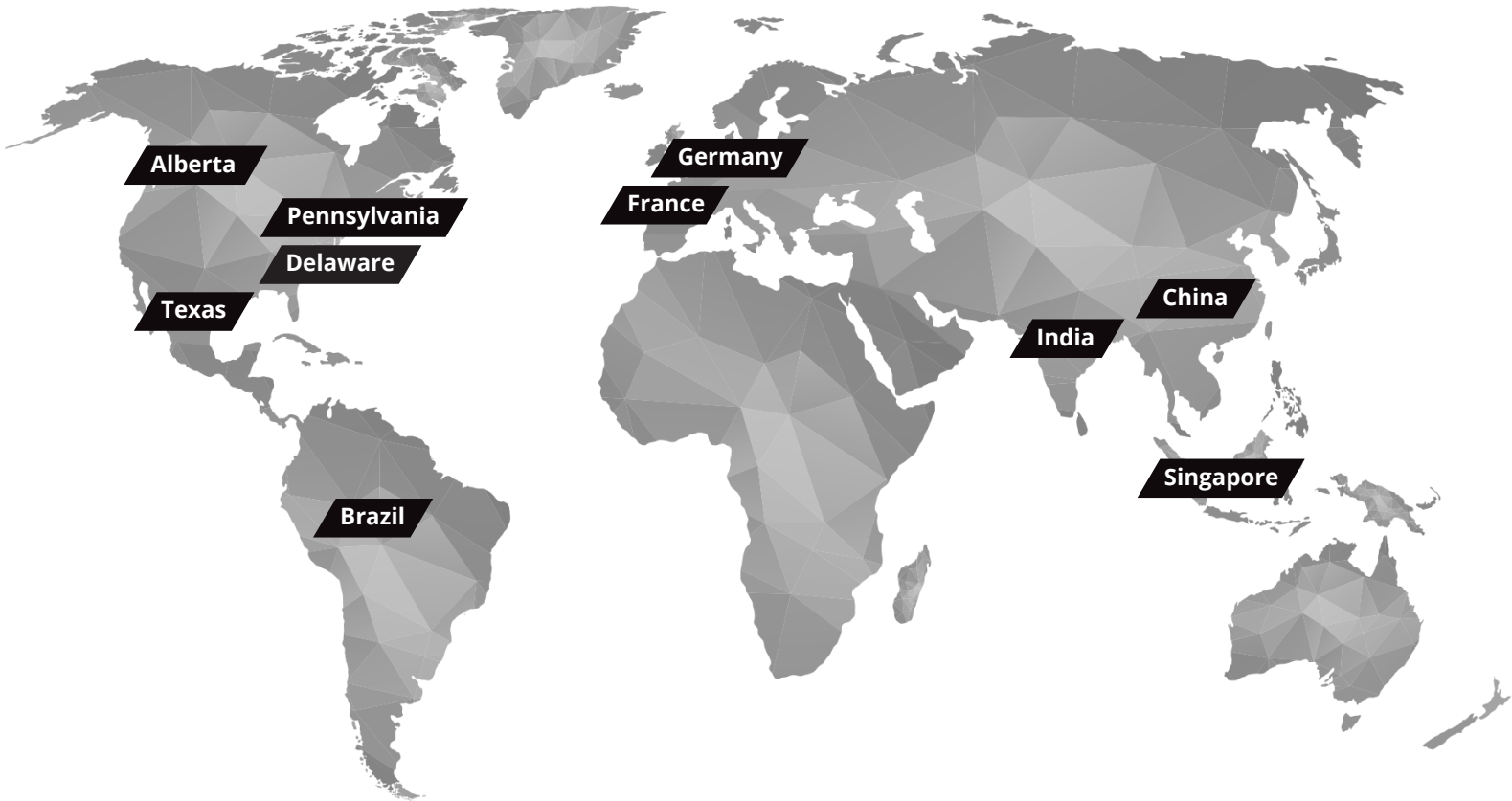


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