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 NOx waste products.

PULP & PAPER, GLASS, CEMENT & LIME

CMFA-P2000

MEASURES: Excess O_2 or Excess Fuel

RANGE
100% to 0.1% excess O_2 and 0.1% to 50% excess fuel

ACCURACY
Excess O_2: ±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/Forehearths, 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: ZrO_2

5100HD

MEASURES: CO, CH_4, O_2

RANGE
ppmv to % level, application dependent

ACCURACY
±2% of reading

PROCESS
Combustion

APPLICATION
Safety and Operational Efficiency Monitoring

TECHNOLOGY: TDLAS

PreMix 2000

MEASURES: Excess O_2 or Excess Fuel

RANGE
All or selected portions of the range from 100% to 0.1% excess O_2 and 0.1% to 50% excess fuel

ACCURACY
Excess O_2: ±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: ZrO_2

WDG-HPII

MEASURES: O_2, Combustibles

RANGE
O_2: 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
O_2: ±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: ZrO_2, Catalytic Sensor

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

PULP & PAPER, GLASS, CEMENT & LIME

IPS-4

MEASURES: SO_2, NOx, ClO_2, CO

RANGE
ppmv to 100%

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

PROCESS
Emission Compliance

APPLICATION
Pulp Bleaching, Emissions Compliance

TECHNOLOGY: UV/NDIR

9900RM

MEASURES: SO_2, NOx, ClO_2

RANGE
ppmv/ppmw to 100%, application dependent

ACCURACY
Better than ±1.0% of standard full scale range

PROCESS
Emission Compliance

APPLICATION
Emissions

TECHNOLOGY: UV

9900WM

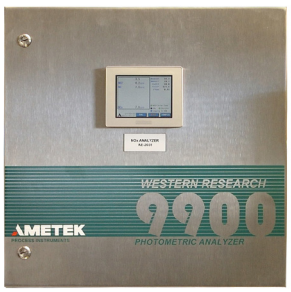
MEASURES: SO_2, TRS, ClO_2

RANGE
ppmv/ppmw to 100%, application dependent

ACCURACY
Better than ±1.0% of standard full scale range

PROCESS
Emission Compliance

APPLICATION
Emissions



TECHNOLOGY: UV

WDG-V Blowback

MEASURES: O_2, Combustibles, CH_4

RANGE
O_2: 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
O_2: ±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, Process Generation, Process Furnaces, Kilns

APPLICATION
Combustion Control

TECHNOLOGY: ZrO_2, Catalytic Sensor