# 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.

# METALS & MINING

## ProMaxion

**MEASURES:** $H_2$, $O_2$, CO, $CO_2$, $N_2$, Ar, $CH_4$, and other components m/z 1-200

**RANGE**
1 ppmv-100%

**ACCURACY**
±0.5% of measured value for argon in air

**PROCESS**
Steel Production

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


**TECHNOLOGY:** UV, Mass Spectrometer

## ProLine

**MEASURES:** $H_2$, $O_2$, CO, $CO_2$, $N_2$, Ar, $CH_4$, and other components m/z 1-200

**RANGE**
1 ppmv-100%

**ACCURACY**
±0.5% of measured value for argon in air

**PROCESS**
Steel Production

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


**TECHNOLOGY:** Mass Spectrometer

## 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**
Foundry/Metals Production
Furnaces, Kilns

**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:** $ZrO_2$, Catalytic Sensor

## 9900RM

**MEASURES:** $SO_2$, $F_2$, Uranium

**RANGE**
ppmv/ppmw to 100%, application dependent

**ACCURACY**
Better than ±1.0% of standard full scale range

**PROCESS**
Emissions Compliance

**APPLICATION**
Emissions


**TECHNOLOGY:** UV

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

## IPS-4

**MEASURES:** $SO_2$, $F_2$, Uranium

**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**
Emission Compliance

**APPLICATION**
Emissions


**TECHNOLOGY:** UV/NDIR

## 5100HD

**MEASURES:** CO, $CO_2$, $O_2$, $H_2O$, $CH_4$, $H_2S$

**RANGE**
ppmv to % level, application dependent

**ACCURACY**
±2% of reading (typical)

**PROCESS**
Operations

**APPLICATION**
Safety, Emissions, Operational Efficiency Monitoring


**TECHNOLOGY:** TDLAS

## WDG Insitu

**MEASURES:** $O_2$

**RANGE**
0-1% to 0-100%

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

**PROCESS**
Coke Ovens, Power Generation

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


**TECHNOLOGY:** $ZrO_2$

## WDG-V

**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; 0-10,000 ppm; 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**
Foundry/Metals Production Furnaces, Power Generation

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


**TECHNOLOGY:** $ZrO_2$, Catalytic Sensor