

# Gas Detection in Metals & Steel Production

With their many furnaces, flames and processes that emit hazardous gases, steel mills have a significant need for gas and fire detection. Each step in the steel making process—from coke production through ingot casting and rolling—has its specific hazards that must be addressed with a properly matched gas detection system. We offer a wide range of gas detection products for the steel industry to help keep employees safe and production running.

## Specific Applications

- Coke ovens
- Blast furnace
- Soaking pits
- Shutdown/turnaround maintenance
- Pickling and plating
- Aluminum smelting
- Hydrogen detection used for cooling
- Ppm hydrocarbon leak detection
- Confined space entry
- Inert gas blanketing
- Data-logging/industrial hygiene—workplace exposures
- Environmental
- Perimeter/fence-line monitoring
- Fixed point

## Potential Hazards

- Ammonia
- Carbon monoxide
- Hydrogen chloride
- Hydrogen cyanide
- Hydrogen sulfide
- Nitric oxide
- Nitrogen dioxide
- Sulfur dioxide
- Volatile organic compounds
- Combustible gases
- Oxygen deficiency/enrichment