

For more information on this product and on our complete package of solutions

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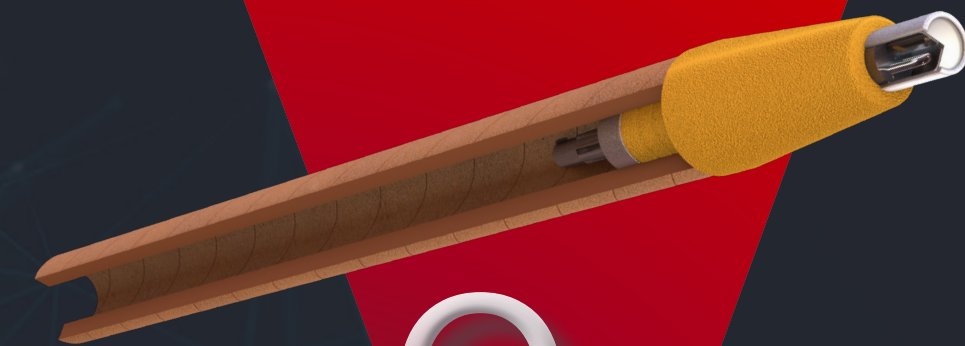
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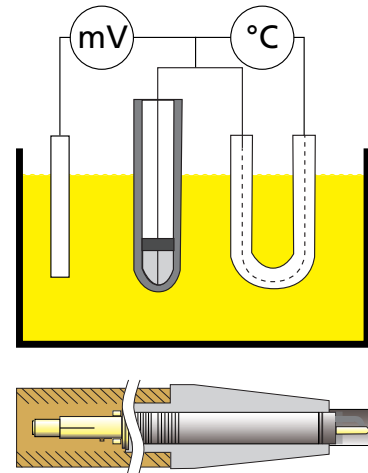


PRODUCT

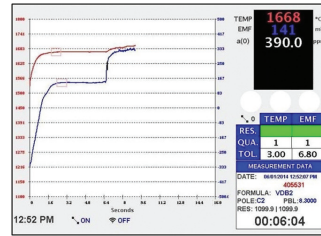
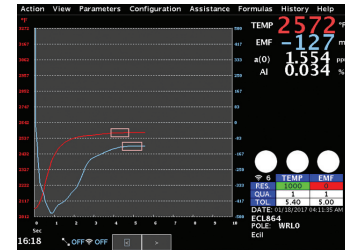
# Oxygen Probes and Systems

# Oxygen Probe Measurement

The Oxidation and De-Oxidation process is at the heart of the iron and steel making process. Oxygen Probes are a powerful tool to monitor and control steelmaking process. Consistency in measuring the spot oxidation level of the steel bath is crucial for achieving high levels of quality, efficiency and process productivity.



- The measurement principle is based on the Nernst's Law. Oxygen partial pressure difference between the reference electrode, and the steel bath (measurement electrode).
- Sensor options are available to meet specific application needs at ALL stages of the iron and steel making process.
- At certain stages in the process, an available oxygen measurement allows to predict levels of carbon and aluminum.
- Soluble aluminum concentration can also be quickly determined using our electrochemical oxygen sensors.
- Over 40 years Oxygen Probe manufacturing technology and experience.



- Available in industry standard Type R, S & B Thermocouples
- $Zr_2O_2/MgO$  stabilized cell

## System Instrumentation Options

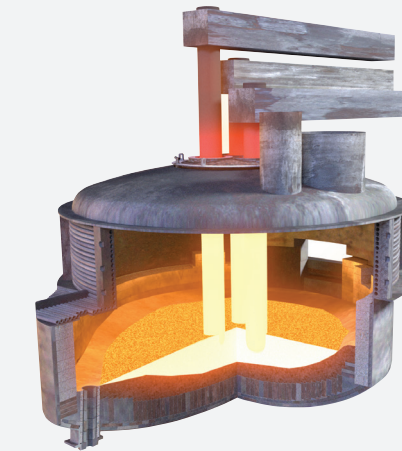
- Traditional cabled or wireless lance configurations
- Wired or wireless signal lights and remote scoreboard displays
- Remote access and troubleshooting service options
- Periodic system performance reporting



## High Level Oxygen Probe Application areas

- Plug and play with most existing hardware
- Automated or manual actuated sampling methods
- Customized and combined probes solutions available

Electric Arc Furnace



## Low Level Oxygen Probe Application areas

- Caster castability applications
- Quick %Al determination for Special Steel Grades

Ladle and Tundish

