

PROCESS GASES IN IRON AND STEEL PRODUCTION

Task

In iron and steel production energy rich process gases are generated. At the same location, gas is also needed as an energy source for thermal processes. Before being used for that, the gases must be monitored for a minimum combustion value and the Wobbe index. For adjustment of the combustion value and the Wobbe index, natural gas or liquefied petroleum gas is added, as necessary.

Solution

UNION Instruments offers an optimally equipped version of its modular INCA gas analyzer as a solution for this. This determines the content of methane, higher hydrocarbons, and oxygen. The measured values serve as a control variable for any needed natural gas addition. The special NDIR technology of INCA compensates for overlaps in the spectrum and thus assures an especially high measuring accuracy.



User Benefit

The composition of the combustion gas influences the start characteristics, efficiency, and knock resistance of gas-powered engines. The use of INCA assures optimal operating conditions for the engine and prevents problems that can lead to destruction of the engine and significant subsequent damage.

