

ENERGY SAVINGS IN THE FERROUS FOUNDRY INDUSTRY

ACCUMETRIX*

TEMPERATURE MEASUREMENT SYSTEM

- Improved metal quality
- Quality assurance
- Lower operation costs
- Lower energy consumption
- Withstands harsh environments

ACCUMETRIX

Temperature measurement system

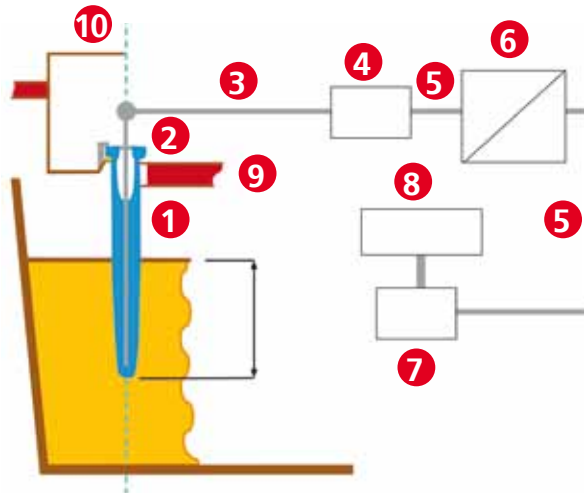
ACCUMETRIX is an industrial temperature measurement system. It continuously reads the bath temperature in real-time at a representative and fixed location inside the pouring vessel.

Able to withstand harsh environments over long periods, the system is composed of:

- An inner long lasting type B thermocouple of patented design, providing high accuracy and enclosed in a molybdenum sheath.
- An outer, disposable, refractory protector tube made of isostatically pressed graphitized alumina. This component has a high thermal conductivity combined with corrosion and erosion resistance to molten metals and slag.
- A high temperature Pt/Rh type B cable.
- Electronic equipment including a mV/mA signal converter and a temperature recorder.

Basic Installation Layout

- 1 Protector tube
- 2 Thermocouple
- 3 High temperature lead cable
- 4 Junction box
- 5 Cu/Cu signal cable 2x1.52 shielded
- 6 Temperature indicator / signal transformer
- 7 Process control computer
- 8 Temperature display
- 9 Cover
- 10 Manipulator



The ACCUMETRIX system provides many operational benefits

- A continuous, real-time temperature control measurement
- Improved operational flexibility through the display of temperature trends
- The elimination of manual temperature measurement provides improved operator safety
- Lower overall operating costs from the prevention of temperature-related breakouts and early warning of freeze-off



For most ferrous foundry installations, simple mounting brackets keep the system in position. The probe and protector tube can be changed easily

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