THERMAL ANALYSIS IN CAST IRON

Measuring equipment SIDERLAB-II

Thermal analysis of molten cast iron provides floor personnel the most timely determination of Carbon Equivalent, Carbon and Silicon while still enabling intervention prior to pouring. By using the SUPERCARB test cartridge, the resulting values are immediately converted by the microprocessor into its chemical analysis. The information from the sample is digitally displayed.

SIDERLAB-II series equipment is manufactured with a solid state microprocessor and printed circuits to minimize maintenance. The equipment is provided with self-test circuitry which will verify the calibration. It is easily possible to compensate for the influence of Phosphorus. SIDERLAB-II can be switched from CE-C-Si determination, to obtain Carbon Equivalent, temperature of solidification and T of undercooling for morphological analysis.
Technical Characteristics:

- **Range:**
  - 3,50±4,90 CE%
  - 2,10±4,20 C%
  - 0,30±3,10 Si%
  - 1000±1370°C
- **Accuracy:**
  - ± 0,01 CE
  - ± 0,02 C
  - ± 0,05 Si
- **Calibration:** ITS-90 for type K TC
- **Display:** 25 mm high, red led type
- **Total or partial morphological analysis is user selectable**
- **Output:** 20mA serial loop
  - On request: RS232, BCD, 4-20 mA analogical
- **Case:** Metal, for panel mounting
- **Dimension:** 300 x 290 x 270 mm
- **Power supply:** 120V or 220V, 50/60Hz, 50VA