

FERROLAB CLASSIC

CARBON SILICON ANALYSER

Measuring beyond expectations



Ajay Syscon Private Limited

Ajay Syscon Private Limited is in designing and manufacturing of state of art microprocessor-based instruments for carbon - silicon analysis and temperature measurement, which is established in 1986, and is a joint venture with Syscon International Inc; U.S.A. We also manufacture consumables like metacups and thermocouple tips of high quality at very competitive rates. Aggressive approach towards product development supported by excellent manufacturing facilities has given the organization an edge over competitors. The company has well spread international network for sales as well as services.

The Product – FERROLAB CLASSIC

The fierce competition in foundry business and the continuous demand to improve the product features, quality and to reduce the running cost, the well-trained Design and Development team lead to develop Ferrolab Classic.

Salient Features

Thermal analysis of following parameters:

- Carbon Equivalent (CE)
- Carbon (C)
- Silicon (Si)
- Bath Temperature (BT)
- Undercool Temperature (TU)
- Delta-T Temperature (dT)
- Saturated Carbon (SC)
- Brinell Hardness (BHN)
- Tensile Strength (Rm)
- Online thermal analysis Cooling Curve on graphic LCD
- Inbuilt six digits 2.3 inch, seven segment display for analysis value.
- Inbuilt four digit 1 inch seven segment display for TP, TL, TS & CE, C, Si
- Inbuilt Audio Visual Panel with 92 dB Hooter.
- Built in 24 column Mini-Serial Printer for instant record printing
- Thermal Analysis of 10 Iron Grades permissible with configurable parameters of each Iron Grade with special features of iron grade mismatching.
- User defined Immersion time for Bath Temperature.
- Process time for Thermal Analysis is 240 seconds.
- Data storage of 45 records of thermal analysis and 175 records of bath temperature readings.
- Input thermocouple channels and temperature range:
 - K type-2 Channels Ch1 for tellurium and Ch2 for non-tellurium cups
 - Temperature range - 950°C-1370°C
 - S/R type thermocouple for bath temperature measurement
- Simultaneous measurement of Thermal Analysis of both channels and bath temperature

Technical Specifications

Measuring Facilities	• Thermal Analysis (Dual Cup) • Bath Temperature Measurement
For Grey and S. G. Iron	Determination of CE, C, Si, ΔT, SC for Unalloyed Cast Iron - Prediction of BHN, Rm
Temperature Measurement Range	Type - K (CH. 1 / CH. 2) 950 to 1370°C Type - S/R (CH. 3) 1000 to 1767°C
Operating Temperature	0 - 50° C
Calibration	IPTS 68 / ITS 90
Accuracy	For Carbon Equivalent: ± 0.05 or better For Carbon: ± 0.05 or better For Silicon : ± 0.10 or better
Temperature Display	°C / °F
Display	Graphic LCD, 240 x 180 pixels
Error Codes	Detailed Error Text Information
Linearisation	Over the entire measuring range
Keypad	Dust proof, user-friendly tactile keypad
Measuring Data Storage	175 Records for Bath Temperature Measurement 45 Records for Thermal Analysis 1000 readings of Bath temperature 1000 readings of Thermal Analysis
Data Backup	Flash Back Storage
Date – Time	Real time clock, backup by battery (3V lithium)
Run Number	12 Digits Alphanumeric
Self Check Facility	Power On Test
Cabinet	Dust Proof M.S. Housing Size – 640 (L) x 480 (W) x 180 (H) mm
Power Supply	230 V AC ± 10% 50Hz.
Power Consumption	25 W
Inbuilt	• Audio Visual Panel for Process Indication • Large Display - 2.3 inch, 6 digit 7 segment • Mini Serial Printer 24 column
External Connectivity	• Serial Interface RS 232
Temperature Detection Method	Flat Plateau

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A joint venture with Syscon International Inc. U.S.A.

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