

FL-1 THERMAL ANALYSIS SYSTEM

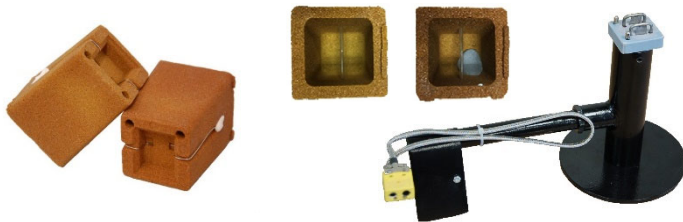
DESCRIPTION

SYSCON Sensors FL-1 is an accurate, easy-to-use, rugged, thermal analysis system designed for foundries. It determines iron chemistry parameters from the cooling curve of molten iron. The FL-1 also measures and stores the molten metal bath temperature.

SYSCON designed and built the popular Electro-Nite Quik-Lab and Datacast digital thermal analysis instruments, beginning in 1978. The SYSCON FL-1 builds from that familiar software platform and is ideally suited for use with SYSCON Sensors Sampling Cups, Thermocouple Tips and Lances.

FEATURES

- ▣ Same familiar software used in popular Electro-Nite Quik-Lab and Datacast models.
- ▣ 15" LCD easy-to-read, glove friendly, touch screen display
- ▣ High overall instrument accuracy of $\pm 3^{\circ}\text{F}$ ($\pm 2^{\circ}\text{C}$)
- ▣ Statistical Process Control for advanced analysis
- ▣ Programmable for user-specific applications
- ▣ USB, Ethernet, and RS-232 ports for data transfer and network connectivity
- ▣ Rugged, dust-proof, NEMA box ideal for Foundries and Steel Mill environments



Ordering Information	
FL-1	FL-1 system with 110V AC Power Cord
CH-FL	Contact Block with Stand and Type K Female Jack
CB-FL	Contact Block only (Type K)
METACUP C	Thermal Analysis Sampling Cup w/ Tellurium
METACUP CE	Thermal Analysis Sampling Cup w/o Tellurium



Technical Specifications

Input	4 Thermocouple Inputs
Thermocouple Type	3 Type K and 1 Type S
Process Variables Measured	<input type="checkbox"/> Cooling Curve Temperatures <input type="checkbox"/> %CE, %C, and %Si <input type="checkbox"/> Shrinkage Factors <input type="checkbox"/> Brinell Hardness <input type="checkbox"/> Tensile Strength <input type="checkbox"/> User Defined Variables (up to 5)
Calibration Standard	IPTS 48 or IPTS 68
Accuracy	$\pm 3^{\circ}\text{F}$ ($\pm 2^{\circ}\text{C}$)
Operating Temperature	32°F - 122°F (0°C - 50°C) (Non-Condensing)
Recommend Temperature Ranges	<input type="checkbox"/> Type S: 400°F - 3182°F (205°C - 1750°C) <input type="checkbox"/> Type K: 400°F - 2462°F (205°C - 1350°C)
Storage	1000 measurements per channel
Connectivity	1 Ethernet, 1 USB, and 2 RS-232
Input Power	90-265 V AC 50/60 Hz
Dimensions	17" W x 13.5" H x 5.5" D (43 cm x 34 cm x 14 cm)
Weight	22lb (10kg)

You've Been Using Our Products Since 1975!

SYSCON International, Inc. has manufactured molten metal temperature measuring and thermal analysis systems for a major private-label customer since 1975. Additional SYSCON Sensors products include:

- ▣ TS-1 Handheld Digital Pyrometer
- ▣ WM-1 Wall-Mount Digital Pyrometer
- ▣ FL-1 Ferrolab Thermal Analysis System
- ▣ Single & Multi-Use Thermocouple Tips
- ▣ Sampling Cups
- ▣ Steel Samplers
- ▣ Repair, Replacement Parts, & Calibration Services