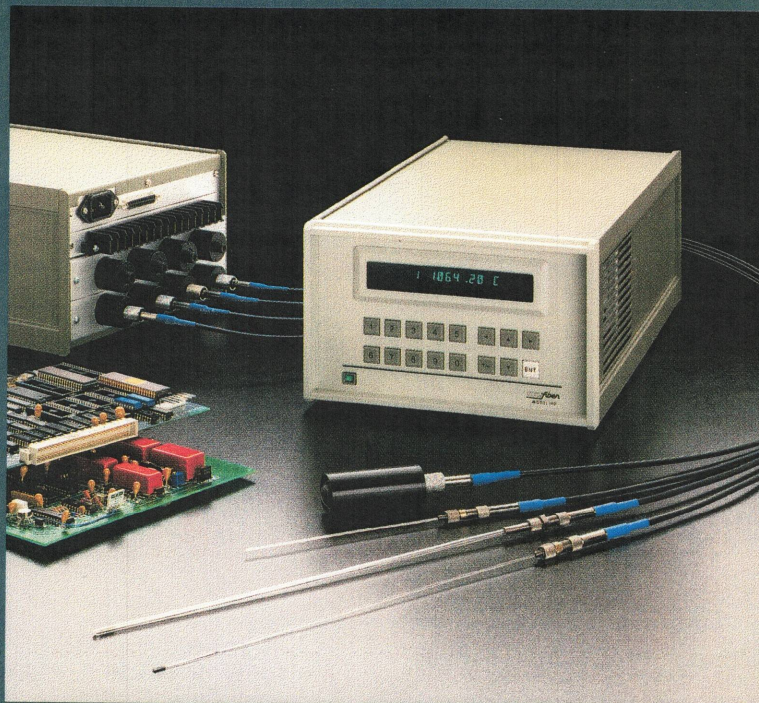


PRECISION MULTI-CHANNEL TEMPERATURE MEASUREMENT AND CONTROL



The Accufiber Model 100 High Temperature Optical Fiber Thermometer System solves your temperature measurement and control needs in the laboratory, in the engine test cell, and on the production floor. Single or multi-channel performance is offered in a compact, self contained design with interface options to satisfy the most demanding closed loop control requirements.

Accufiber produces a wide range of sapphire blackbody, sapphire light-pipe, and optical pyrometer sensors. The sensors are immune to EMI and measure a wide range of temperatures with extraordinary resolution, repeatability and response. You choose from two to eight channels, and then select a sensor, an input option and an output option for each channel. The flexibility of the Model 100 and the wide range of options available enable you to readily configure a system optimized to your individual application requirements.

When your high temperature measurements require precision, the Accufiber Model 100 Optical Fiber Thermometer provides the ideal solution.

- 2 to 8 Channels
- Contact and Noncontact Sensors
- Fully Programmable
- Competitively Priced
- 200° to 4000°C Range
- Up to 0.01°C Resolution
- 0.01% Repeatability
- Up to 10KHz Response

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LUXTRON CORPORATION
ACCUFIBER DIVISION

● HIGH TEMPERATURE PROCESSING ● SEMICONDUCTOR PROCESSING ● INDUCTION HEATING ● CRYSTAL GROWTH
● GAS TURBINE AND AUTOMOBILE ENGINE TESTING

MODEL 100 MULTI-CHANNEL OPTICAL FIBER THERMOMETER SYSTEM

Mainframe Specifications

16 Character alphanumeric display
RS232C serial interface
(input and output)
2 Input slots
1 Output slot
50 Readings per Sec./# Channels
Display Units: °C, °F, °K,
Photodiode Current,
Raw A/D Output

Mainframe Options:

Option 100-9000: Rack Mount adaptor case

Model 100 Physical Specifications:

Operating temperature: 5 to 45°C
Humidity range:
95% R/H, Non-condensing
Storage temperature:
-40°C to +75°C
Electrical requirements:
87-250 Volts AC, 46-63 Hz
Power consumption: 60 Watts
Size: 5.75"H x 8.5"W x 18.5"D
(146mm H x 216mm W x 470mm D)
Weight: Approx. 11 lbs. (5 Kg)



Accufiber Products

INPUT OPTIONS	Number of Channels	Temperature Range*	Resolution (typical)	Repeatability	Accuracy	Bandwidth	OUTPUT OPTIONS	Output Range	Resolution (typical)
Standard High Resolution Option 100-530n	4 per board	500°C to 1900°C	0.01°C at 1000°C	0.01%	0.2% at 1000°C	0.1Hz - 50Hz	Voltage Option	0 to 10 Volt	672 µV
							Current Option	4 to 20 mA	1 µA
Dual Wavelength Option 100-550n	2 per board	500°C to 1900°C	0.01°C at 1000°C	0.01%	0.2% at 1000°C	0.1Hz - 50Hz	Thermocouple Simulation		
							Type K Option		3.34 µV
Wide Bandwidth Option 100-570n	2 per board	500°C to 1900°C	0.1°C at 1000°C	0.01%	0.2% at 1000°C	0.1Hz - 50Hz 10,000Hz (Analog)	Type R Option		1.34 µV
							Type S Option		1.34 µV

SYSTEM CONFIGURATION GUIDE

Input Options: The Model 100 mainframe has a maximum of 2 available slots for input option boards. Select 1 or 2 input option boards from the INPUT OPTIONS above, specifying the option number and quantity required. Any combination of 2 input option boards can be specified for use in a single Model 100 mainframe.

Output Options: The Model 100 mainframe contains 1 output board which includes an RS 232C serial digital interface as standard. Additional output options can be selected from the OUTPUT OPTIONS above and any combination of output options can be included on the output board.

*Ranges available from 200°C to 4000°C. If High Temperature Option is selected, the resolution is limited to 0.1°C.

The specifications detailed above represent system performance in a laboratory environment for fixed geometry measurements. Actual performance may vary depending on heat transfer and other measurement conditions.

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