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**Field Proven Fiber Optic Sensors**
The FOT Lab Kit is a 4-channel fiber optic thermometry system that allows users to measure temperature where conventional sensors fail. LumaSense Technologies’ patented technology, known as Fluoroptic® Thermometry (FOT), offers probes that are totally immune to electromagnetic interference (EMI) and entirely non-metallic in construction. These qualities make FOT instruments perfectly suited for measuring temperature in harsh environments often encountered during research, such as high voltages and strong radio frequencies (RF).

**Flexible, Easy to Use**
The FOT Lab Kit includes a Fluoroptic® thermometer shielded in a metal enclosure, universal power supply, RS-232 cable, users manual and compact carrying case.

Data is logged with any terminal program (such as Microsoft Windows® Hyperterminal) or with the optional TrueTemp graphing and data capture PC software. The FOT Lab Kit interfaces with data acquisition devices through the analog output (O-10VDC or 4-20mA) or the RS-232 digital port.

**Compatible with Every Application**
A wide variety of probe configurations (immersion, surface and remote) are available for specific measurement applications. Available probes are shown in the Probe and Accessories data sheet. These unique fiber optic probes are non-metallic, electrically non-conductive and immune to electromagnetic interference and voltages that adversely affect thermocouples, thermistors and RTDs.

**Applications**
- Temperature Control and Monitoring of Semiconductor RF Process Chambers
- Temperature Control and Monitoring of Dielectric (RF and Microwave) Heating Processes
- Heat Generation Monitoring of Live Integrated Circuits
Luxtron FOT Lab Kit

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channels</td>
<td>4</td>
</tr>
<tr>
<td>Measurement Range</td>
<td>-100 to 330°C</td>
</tr>
<tr>
<td>Electrical Interference</td>
<td>Probe Immune to EMI (RF, Magnetic and Microwave)</td>
</tr>
<tr>
<td>Accuracy (Calibrated)</td>
<td>±0.5°C within 50°C of calibration temperature ±0.2°C within 20°C of calibration temperature ±0.1°C @ calibration temperature</td>
</tr>
<tr>
<td>Repeatability (Precision)</td>
<td>0.5°C RMS @ 8 Samples per Measurement</td>
</tr>
<tr>
<td>Output Resolution</td>
<td>0.01°C</td>
</tr>
<tr>
<td>Measurement Rate</td>
<td>Max 4 Hz for a single Channel, Configurable</td>
</tr>
<tr>
<td>Output Format</td>
<td>Selectable °C, °F and K</td>
</tr>
<tr>
<td>Self Diagnostic</td>
<td>Self Diagnosis and Probe Errors Available on RS-232</td>
</tr>
<tr>
<td>Input Power</td>
<td>100-240VAC Universal Power Supply Included</td>
</tr>
<tr>
<td>Serial Output</td>
<td>RS-232C</td>
</tr>
<tr>
<td>Analog Output</td>
<td>0-10V or 4-20mA</td>
</tr>
<tr>
<td>Dimensions</td>
<td>171.5 W x 107.6 H x 50.8 D (mm)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-30 to +75°C</td>
</tr>
<tr>
<td>Operating Environment</td>
<td>10°C to 50°C, 80% RH (Max) Non-condensing</td>
</tr>
</tbody>
</table>

Kit Includes

- 4-Channel Instrument
- Universal Power Supply (100-240VAC)
- Cable for RS-232 Serial Communication
- User’s Guide
- Quick Start Guide

Available Accessories

- Fiber Optic Extension Cables
- Vacuum Feedthroughs
- TrueTemp™ Data Acquisition and Graphing Software
- Lab View Drivers

Compatible Probes*

<table>
<thead>
<tr>
<th>Type</th>
<th>Temperature Range</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>STF</td>
<td>0 to 295°C</td>
<td>Fast Response</td>
</tr>
<tr>
<td>STR</td>
<td>-25 to 330°C</td>
<td>Remote Sensing</td>
</tr>
<tr>
<td>STS</td>
<td>-25 to 200°C</td>
<td>Surface Contact</td>
</tr>
<tr>
<td>STB</td>
<td>0 to 120°C</td>
<td>Medical</td>
</tr>
<tr>
<td>STM</td>
<td>-25 to 250°C</td>
<td>General Immersion</td>
</tr>
<tr>
<td>WTS</td>
<td>-30 to 200°C</td>
<td>Electric Power</td>
</tr>
</tbody>
</table>

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