



FLUOROPTIC THERMOMETER

I652 Industrial Monitor

Fiber Optic Thermometer for Harsh Environments

The I652 is an industrial grade fiber optic temperature monitoring system designed with two measurement channels and easy to read two line LED display. There's no need to carry and set up large bench top monitors to provide continuous monitoring of your critical temperatures.

The tough metal enclosure of the I652 provides electromagnetic shielding in the harshest environment. Its tamper-proof design allows only authorized personnel with a computer and the appropriate software, the ability to change calibration or monitoring parameters. When connected to a computer, the unit can also be used as a temperature data acquisition unit through the RS-232 port or analog output ports.

The I652 comes with a one-meter Fluoroptic® STF probe allowing temperature monitoring in harsh environments such as strong RF interference or high voltage. In addition to the STF probe, the I652 also can be used with Luxtron FOT Lab Kit (FOT) probes and extensions. Luxtron's Fluoroptic® (FOT) probes are immune to electromagnetic interference (EMI), are entirely non-metallic, and coated with chemical resistant materials. Luxtron's FOT probes can go where no thermocouples, thermistors and RTDs can be used. In addition to the STF probe, the unit includes a universal power supply, RS-232 cable, analog output connection, and a users' manual.

With over 25 years of experience and thousands of systems installed worldwide Luxtron is the most trustworthy name in the fiber optic thermometry industry.

Applications

- Process monitoring of dielectric (microwave and RF) heating processes
- Monitoring of chemical reactions or with two probes, stratified chemical reactions
- Temperature monitoring of "live" electrical circuits during lifetime testing
- Testing heat temperature of capacitors, resistors in high power applications
- Measuring the heating of integrated circuits (ICs) under load



Field Proven Technology

Immune to RF and EMI

Fast and Accurate Temperature Monitoring

No Re-calibration ... Ever!

Benefits

- Small footprint for easy and quick setup (mounting holes on case).
- Tamper proof design to prevent calibration or monitoring parameter changes
- EMI and RF immunity
- Sturdy metal case built for industrial monitoring

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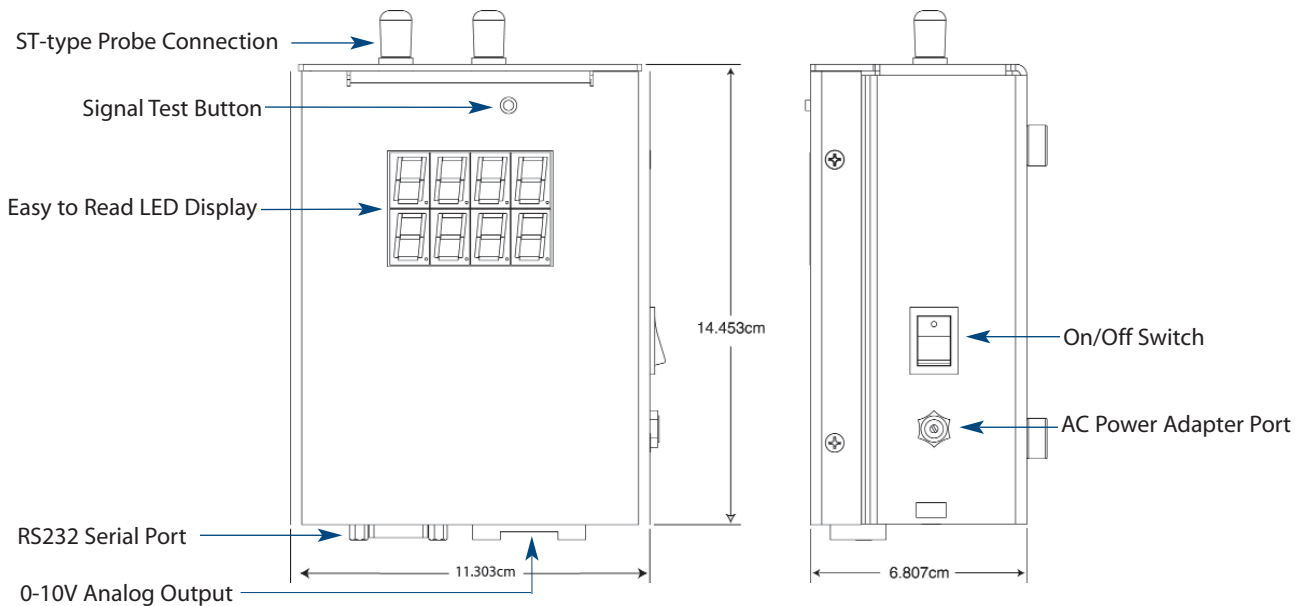
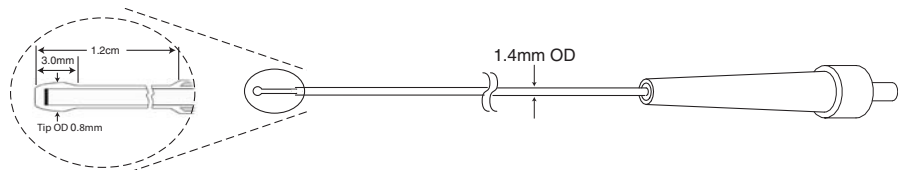
Specifications

Channels	2
Measurement Range	-25 to 295°C
Electrical Interference	Probe immune to EMI and RF
Accuracy (Calibrated)	0.1°C RMS at calibration point 0.2°C RMS within 20°C of calibration point 0.5°C RMS within 50°C of calibration point
Repeatability (Precision)	±0.5°C RMS @ 8 samples per measurement
Output Resolution	0.1°C
Measurement Rate	2 Hz per channel
Output Format	°C
Self Diagnosis	Self diagnosis and probe error reading on display
Input Power	100-240 VAC universal power supply
Serial Output	RS-232
Analog Output	0-10VDC
Dimensions	14.38 H x 11.10 W x 5.66 D (cm)
Storage Temperature	-30 to +75°C
Operating Environment	10°C to 50°C, 80% RH (max) non-condensing



Dimensions

1 meter STF probe standard. Additional lengths available. Unit can also be used with other FOT Lab Kit probes and extensions.



Your local Luxtron representative is:

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