

FLUOROPTIC® THERMOMETER

I652 Industrial Monitor

Fiber Optic Thermometer for Harsh Environments

Industrial-grade Fiber Optic Sensor

The I652 is an industrial grade fiber optic temperature monitoring system designed with two measurement channels and easy to read two line LED display. The I652 can be incorporated into an industrial control scheme through the RS-232 or Analog Output ports.

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.

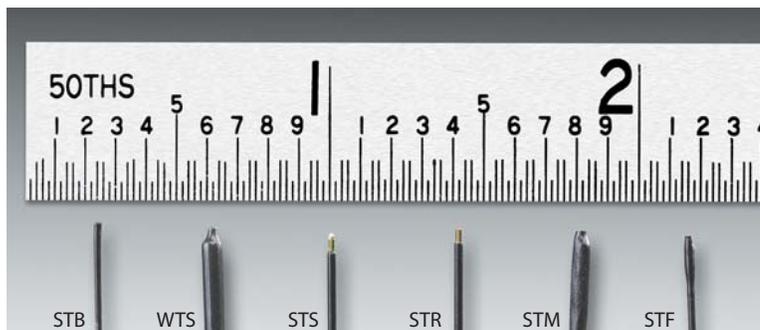
Compatible with Every Application

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 can be used with Luxtron's FOT Lab Kit (FOT) probes and extensions. Luxtron's 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.

Field Proven

In addition to the FOT probe, the unit includes a universal power supply, RS-232 cable, analog output connector, and a users' manual.

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



Benefits

- Turn-key System with Built-in Display
- Small Footprint for Easy and Quick Setup (Mounting Holes on Case).
- Tamper Proof Design Prevents Unauthorized Calibration or Parameter Changes
- EMI and RF Immunity
- Sturdy Metal Case Built for Industrial Monitoring
- Set it and Forget it ... Stable and Inert Sensor

Applications

- Monitoring of Dielectric (Microwave and RF) Heating Processes
- Monitoring of Chemical Reactions
- Monitoring of "Live" Electrical Circuits During Lifetime Testing
- Testing Temperature of Capacitors, Resistors in High Power Applications
- Monitoring of Microwave Processes

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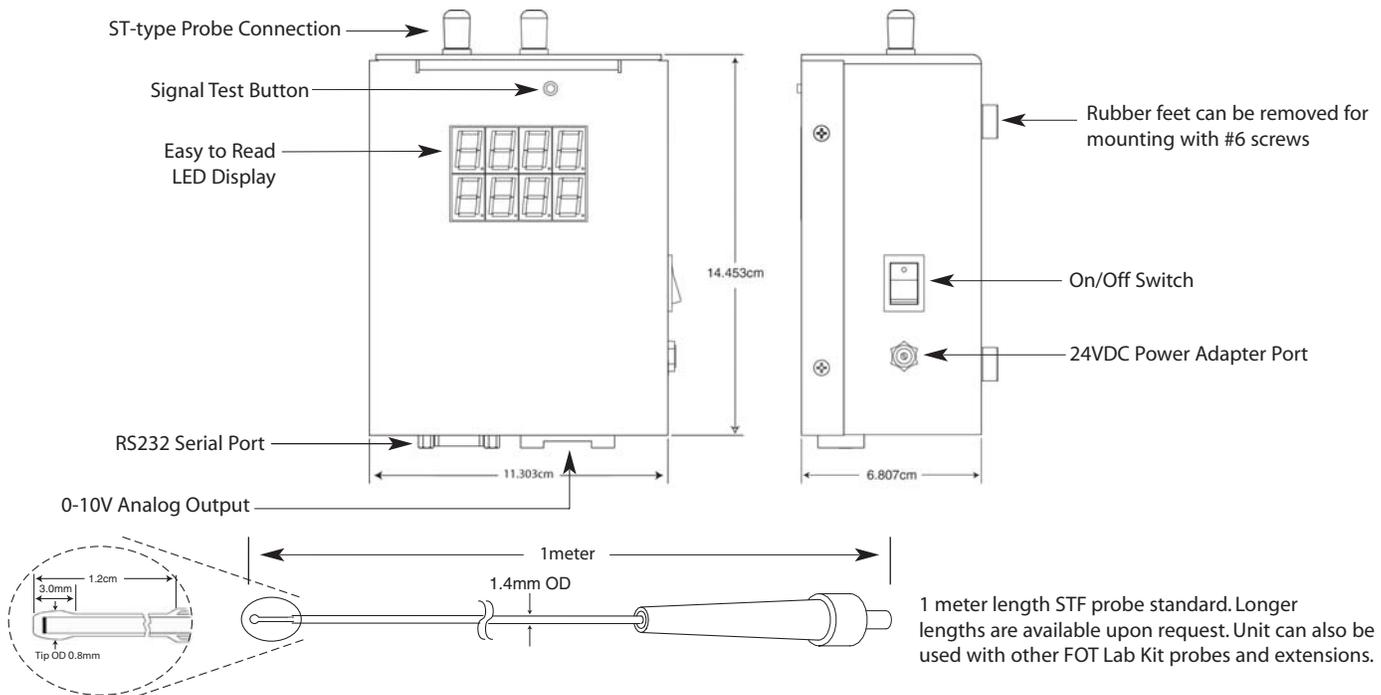
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Specifications

Channels	2
Measurement Range	-25 to 295°C
Electrical Interference	Probe immune to EMI and RF
Accuracy (Calibrated)	±0.5°C within 50°C of calibration point
Repeatability (Precision)	0.5°C RMS @ 8 samples per measurement
Output Resolution	0.1°C
Measurement Rate	1 to 4 Hz per channel, configurable
Output Format	°C
Self Diagnosis	Self diagnosis and probe error reading on display
Input Power	24 VDC, ±5%, 300 mA (100-240 VAC Universal Power Supply included)
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



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