

Fiber Optic Thermometer for Harsh Environments



Benefit

- 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
- Probes immune to EMI
- Sturdy metal case built for industrial monitoring
- Set it and forget it... stable and inert sensor

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 environments. 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 works with all Luxtron brand fiber optic probes and extensions allowing temperature monitoring in harsh environments such as strong RF interference or high voltage. Our fiber optic probes are immune to electromagnetic interference (EMI), are entirely non-metallic, and coated with chemical resistant materials. The Luxtron line of fiber optic probes can go where no thermocouples, thermistors and RTDs can be used. In addition, the unit includes a universal power supply, RS-232 cable, analog output connector, and a users' manual.

Field Proven

With more than 25 years of experience and thousands of systems installed worldwide the Luxtron brand is the most trustworthy name in the fiber optic temperature measurement industry.

Applications

- Process monitoring of dielectric (microwave and RF) heating processes
- Monitoring of chemical reactions
- Temperature monitoring of "live" electrical circuits during lifetime testing
- Testing temperature of capacitors and resistors in high power applications
- Temperature monitoring of microwave processes

Luxtron I652 Industrial Monitor

Specifications

Channels	2
Measurement Range	-30 to 330°C
Electrical Interference	Probe immune to EMI and RF Microwave
Accuracy (Calibrated)	±0.5°C within 50°C of calibration temperature ±0.2°C within 20°C of calibration temperature ±0.1°C @ calibration temperature
Repeatability (Precision)	0.5°C RMS @ 8 samples per measurement
Output Resolution	Front Display 0.1°C RS-232 0.01°C Analog 0.01°C
Measurement Rate	Max 4 Hz for single channel, configurable
Output Format	°C, °F, K
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	144.5 H x 113.0 W x 68.1 D (mm)
Storage Temperature	-30 to +75°C
Operating Environment	10°C to 50°C, 80% RH (max) non-condensing

Kit Includes

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

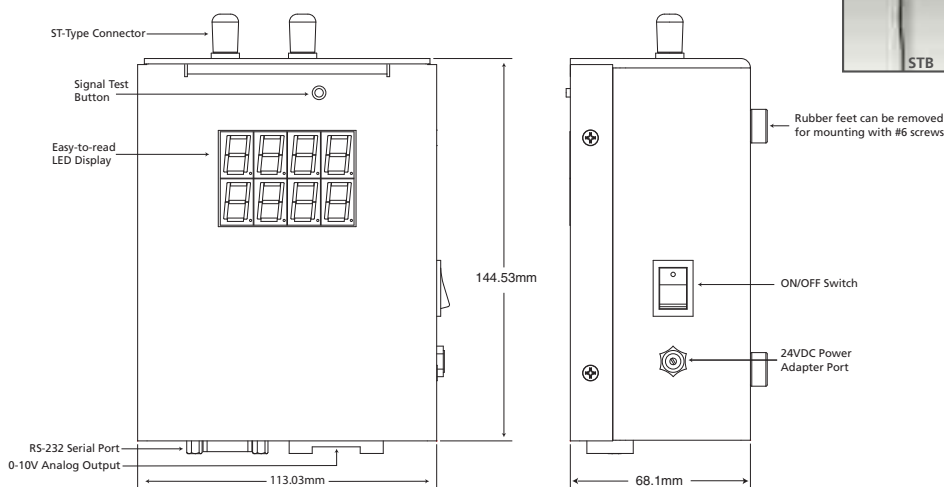
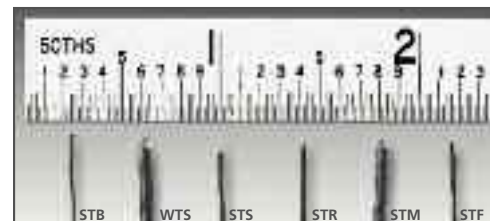
Available Accessories

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

Compatible Probes*

Type	Temperature Range	Application
STF	0 to 295°C	Fast Response
STR	-25 to 330°C	Remote Sensing
STS	-25 to 200°C	Surface Contact
STB	0 to 120°C	Medical
STM	-25 to 250°C	General Immersion
WTS	-30 to 200°C	Electric Power

* For more information and probe specifications see Probes and Accessories data sheet.



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