Fibroptic Model FG gives you continuous and reliable remote temperature measurement at the critical points in your plant or process - effectively and economically.

Fibroptic Model FG operates at short wavelengths to provide maximum accuracy of measurement for high temperature applications between 980 and 1650°C/1800 and 3000°F.

A 4 to 20mA linear output is provided directly from the thermometer for connection to temperature readout, recording or control equipment. The only requirement is a suitable power supply.

The same two wires that provide the power to the thermometer also carry the temperature signal out.

Fibroptic Model FG is a rugged thermometer in which an optic head is linked by a fibre optics light guide to an uncooled body, housing a signal processing unit, located remotely from the high ambient temperatures at the optic head.

The use of flexible, high temperature rated fibre optics light guide and optic head allows measurement of targets which may be inaccessible to conventional thermometers.

**Typical Applications**
- Induction Heating
- Glass
- Ceramics
- Heat treatment
- Mineral Processing
- Welding and Weld preheat

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**Infrared Temperature Measurement**

See www.landinst.com for full contact details
POWER UNIT
An optional power supply unit is available to convert the available mains power supply into the d.c. voltage input which the thermometer requires. Further details are provided on a separate datasheet.

DIGITAL PANEL METER
A Digital Panel Meter to display the temperature is available; offering an LED display mounted in a standard DIN sized enclosure.

4 to 20mA CURRENT LOOP
A Digital panel meter

FIBROPTIC MODEL FG SPECIFICATION
Measurement ranges
- FG 9.8/13C: 980 to 1300°C
- FG 18/24F: 1800 to 2400°F
- FG 10/14C: 1000 to 1400°C
- FG 12/16.5C: 1200 to 1650°C
- FG 22/30F: 2200 to 3000°F

Accuracy
- Interchangeability: ±2%
- Resolution: 0.1°C
- Linearization conformity: <0.5°C
- Temp. coefficient: <0.04°C/°C - mid span
- <0.07°C/°C - span extremities
- Absolute: 5°C

Output:
- 4 to 20mA (linear)
- 0.5s (to 98%)
- Spectral response: 0.7 to 1.0µm

System test output: 1275°C/2325°F indicated

Emissivity:
- 0.10 to 1.00 (adjustable)
- (factory set to 1.00)

Ambient temp. limits
- Optic head: 200°C/400°F
- Light guide: 175°C/350°F
- Processor: 10 to 60°C/50 to 140°F

Power requirement:
- 24V d.c. (nominal)
- 18 to 40V d.c.

Over voltage protection: 250V a.c.