When Temperature is Critical to Production and Safety

Select from the Worldwide Leader of Precision Temperature Measurement

Whether at a refractory furnace, in an industrial oven or in space research, measuring temperature without making contact on a surface is vital to quality and yield, especially when those temperatures reach over 1000°C. The Pyrometer Instrument Company has dedicated more than 75 years developing instruments that make high-temperature measurement straightforward, efficient and accurate.

The company's initial products were contact and immersion thermocouple pyrometers for molten iron and steel foundries. Non-contact optical pyrometers incorporating a photoscreenic wedge followed and later the micro optical pyrometer. As the company developed technical innovations, they continued to design and produce instrumentation for precision hot temperature measurement.

The most stunning example of this technical excellence is the Pyrolaser Portable IR, the Pyrometer instrument that automatically corrects for emissivity. This device so improved the accuracy of temperature measurement that it has received the Photonics Circle of Excellence Award.

The Pyrometer Instrument Company offers a wide selection of superior instrumentation for varied applications.
Pyrometer's Quality Product Selection

**NON-CONTACT PYROMETERS**

Pyrometer's flagship line of portable and on-line intelligent infrared thermometers measure emissivity and temperature from 250°C to 3000°C (480°F to 5400°F).

These advanced IR thermometers automatically correct for changing emissivity to produce temperature accuracy to ±3°C. Industrial, lab and research applications include petrochemical, ceramics, forging, annealing, semiconductor, R&D and material testing.

- Pyrolaser®
- Pyrofiber® Industrial
- Pyrofiber® Lab
- Pyrofiber® II
- Pyrofiber® E10
- Optitherm® III

Other specialty IR thermometers measure temperature from -50°C to 1000°C (-58°F to 1832°F). Applications include thermal mapping, sea surface and cloud temperature measurements with sensitivity to 0.1°C and portable thermal line scanning.

- PRT-5 Precision Radiation Thermometer
- ThermAtrace II

Pyrometer's line of Classic Optical Pyrometers measure temperatures from 770°C to 4500°C (1400°F to 8100°F). These instruments include both disappearing filament and photoscreenic wedge types. Applications include molten metals, ceramics, cathodes, filament wires as small as 0.0127mm (0.0005”).

- Pyro Optical
- MicroTherm
- Calibrating Test Set
- Ribbon Filament Lamps

**CONTACT PYROMETERS**

Pyrometer’s line of rugged industrial Contact Pyrometers can be used for surface or immersion temperature measurements from 0°C to 1400°C (32°F to 2500°F). These instruments come in either Analog or Digital read out. Pyrometer offers over 50 different interchangeable industrial thermocouples and extension arms. Analog model instruments require no batteries.

- Analog Contact
- Analog Immersion
- Digital 500 II
- Digital 250 Series

**CALIBRATION EQUIPMENT**

Pyrometer complements its precision temperature measure equipment with a series of high precision infrared Black Body Calibration Sources. We offer 15 models from -20 to 3000°C (-4°F to 5400°F). These calibration sources are NIST traceable and can be used for in house calibrations.

**PMA AUTOMATED CONTROLS**

Pyrometer offers a series of PMA Process Machinery Automation products. Designed for process measurement and control, this line of products meet most industrial control needs. Product line includes panel meters, controllers, recorders, and transmitters for temperature, pressure, flow and level.

- Controllers, single & multi-loop
- Universal Blue Port Series
- Advanced Line
- Panel Meter & Indicators
- Transmitters
- Recorders & Data Acquisition

**PYRO SERVICE**

Pyrometer provides an in-house Service Department for the repair and maintenance of Pyro products. Fast turn around time to coincide with your plant shut down and quality workmanship are available. All products are returned to the customer tested and in compliance with original specifications. The calibration lab can supply a point-by-point certification of calibration if required.

Our service programs include:

- **Product Repair**
- **Field Service**
- Onsite Installation
- Start up
- Customer Training
- Onsite Repair Service
- Onsite Calibration
- Customer Application Support
- Customer Application Solution

For more information, call 1 800 HOT PYRO or visit our website www.pyrometer.com

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