Digital 250 Light Duty

THERMOCOUPLE PYROMETER

DIGITAL 250 LOW-COST PORTABLE DIRECT READING PYROMETER

APPLICATIONS

The Pyro Digital 250 SDT141S-LTDuty Pyrometer can accommodate a wide variety of thermocouple tips that are suited for many types industrial and commercial applications.

- Lab
- HVAC
- Plastic & Rubber
- Weld Temps
- Heat Treating
- Oven Chambers
- Steam Traps
- Dies & Molds
- Engine Heads
- Brake Drums
- Bars & Sheets
- Oil Baths

FEATURES

- Large LCD Display reads in °F or °C
- Meter Accuracy: ±0.3% Reading
- Typical Error: ±1.8°F or ±1.0°C
- Temperature Ranges: 32°F - 2462°F (0°C - 1350°C)
- Records Min/Max Temperatures
- Display Hold Button
- Meter Housed in Molded Rubber Boot
- Standard 9 Volt Battery
- Low Battery Warning Display
- Three Year Meter Warranty
- Selectable J & K Input Thermocouples
- Complete Line of Interchangeable "J" & "K" Type Thermocouples

DESCRIPTION

The Pyro Digital 250 Series Model SDT141S-LTDuty Pyrometer is a low-cost, light-duty, digital pyrometer. The handheld case is made from durable plastic, which is enclosed by a shock resistant rubber boot with a flip-out rear bracket from stand-up viewing. The thermocouple-input jack is a standard mini flat pin connector for easy thermocouple interchangeability. The SDT141S-LTDuty accepts either J or K thermocouple inputs. Instrument accuracy is ±0.3% reading. There is a choice of 20 different thermocouples to meet most process measurement applications.

OPERATION

The Pyro Digital 250 Series Model SDT141S-LTDuty pyrometer is easy to operate from the front keypad. Simply install the appropriate thermocouple, select from the keypad input type J or K thermocouple, select temperature °F or °C and select display resolution 1/10° or 1° and you are ready to measure the process temperature. In addition, if you wish to check temperature variations over a period of time, the SDT141S has a record feature where you can also view the minimum or maximum temperatures on the meter's display.

- Simplicity of Operation
- Complete Line of Interchangeable Thermocouples
- Durability/Ruggedness
- Min/Max and Actual Temperature

PRECISION PYRO PYROMETERS

The Pyrometer Instrument Company, Inc. • 92 North Main Street, Bldg 18D • Windsor, NJ 08561 • USA
Telephone: (609) 443-5522 • Fax: (609) 443-5590 • e-mail: sales@pyrometer.com
Visit Our Website: www.pyrometer.com

Digital 250 Light Duty

SPECIFICATIONS

Selectable Readout & Resolution:	°F or °C (1/10° from 0 - 999.9° or 1° over 1000°)
Temperature Range:	Type K: 32>°F - 2462°F (0-1350°C)
	Type J: 32°F - 1832°F (0-1000°C)
Accuracy:	±0.3% of Temperature Displayed, typical ±1.8°F or ±1.0°C
Ambient Temperature Range:	40°F to 120°F (5°C - 50°C)
Digital Display:	4 Digits - Characters 1/2" High LCD
Cold Junction Compensation:	Automatic
Power:	9.0 Volt Alkaline Battery, 100 Hours Continuous Operation

CALIBRATION

- The Pyro SDT141S-LTDuty Pyrometer comes complete factory calibrated traceable to NIST Standards.
- Optional "Certificate of Calibration" per point to NIST Standards can also be provided.
- Expert factory service is also available for periodic calibration or maintenance.

PRODUCT INFORMATION

When ordering specify the Pyro Digital 250 Model SDT141S-LTDuty Pyrometer and the required interchangeable Extension Arms and Thermocouples from below to meet your applications.

WARRANTY

Good performance and reliability are what you expect when you buy precision products from The Pyrometer Instrument Company, Inc. The Pyro Digital 250 SDT141S-LTDuty Pyrometer comes complete with a three-year factory warranty on the electronic meter and a one-year warranty on all hardware items. For complete details see our Product Warranty Page.

ACCESSORIES

Interchangeable "J" & "K" Style Thermocouples are shown below.

INTERCHANGEABLE "J" & "K" CONTACT TYPE THERMOCOUPLES

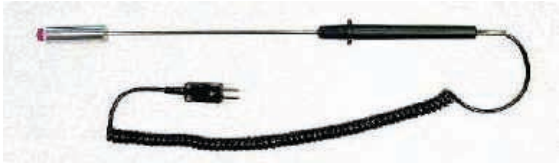
Pyro offers a wide range of industrial and commercial thermocouple styles to meet your applications. Pyro's many styles of contact thermocouples allow for contact measurement of flat, molds, hot plates, insertion, air or oven temperatures and semi-fluid materials. Each thermocouple model number is prefixed with either J or K to indicate thermocouple type. Special purpose thermocouples are available for immersion in liquids, gases, or for measuring air temperature. All thermocouples include handle and 4-foot coiled cable and mini connector to push securely into the Pyro Digital 250 SDT141S-LTDuty meter. All Pyro contact thermocouples are interchangeable. Custom thermocouples are available upon request, consult factory.

Accuracy on Surface Thermocouples

Type K:	32°F - 530°F ±4°F
	530°F - 2462°F ±3/4%
Type J:	32°F - 530°F ±4°F
	530°F - 1832°F ±3/4%

Model J-STP130, Needle
Insertion Applications
8" Conical Tip Insertion Probe
Maximum Temperature 1562°F (850°C)
Response Time 6 seconds

Model J-STP147, Surface
Contact Applications
8" Spring Loaded Tip Surface Probe
Maximum Temperature 950°F (510°C)
Response Time 6 seconds



Model J-STP148, Surface
Contact Applications
90° Angle Spring Load Tip Surface Probe
Maximum Temperature 950°F (510°C)
Response Time 6 seconds

Model J-STP149, Air
Air Temperature Applications
8" Exposed Tip Air Probe
Maximum Temperature 500°F (260°C)
Response Time 4.5 seconds

Model J-STP154, Needle
Insertion Applications
6" Heavy Duty Conical Tip Insertion Probe
Maximum Temperature 1562°F (850°C)
Response Time 6 seconds

Model J-STP166, Needle
Insertion Applications
4" Heavy Duty Conical Tip Insertion Probe
Maximum Temperature 1562°F (850°C)
Response Time 6 seconds

Model K-SAK12M, Chisel
Insertion Applications
11.8" Chisel Tip insertion Probe
Maximum Temperature 482°F (250°C)
Response Time 4 seconds

Model K-SAK13M, Needle
Insertion Applications
3.5" Conical Tip Insertion Probe
Maximum Temperature 482°F (250°C)
Response Time 4 seconds

Model K-SAK21M, Chisel
Insertion Applications
3.7" Heavy Duty Chisel Tip Insertion Probe
Maximum Temperature 482°F (250°C)
Response Time 2 seconds

Model K-SBK11M, Surface
Contact Applications
4" Heavy Duty Spring Loaded Tip Surface Probe
Maximum Temperature 482°F (250°C)
Response Time 0.2 seconds

Model K-SBK12M, Surface
Contact Applications
2.8" Heavy Duty 90° Angle Spring Loaded Tip Surface Probe
Maximum Temperature 482°F (250°C)
Response Time 0.4 seconds

Model K-SBK14M, Surface
Contact Applications
Heavy Duty 90° Angle Spring Loaded Tip Surface Probe
Maximum Temperature 482°F (250°C)
Response Time 0.4 seconds

Model K-SBK17M, Surface
Contact Applications
Heavy Duty 45° Angle Spring Loaded Tip Probe
Maximum Temperature 482°F (250°C)
Response Time 0.4 seconds

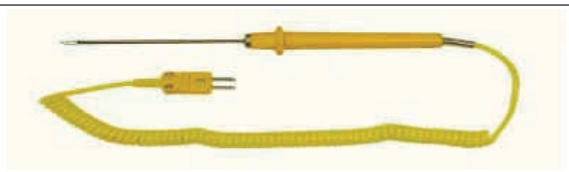
Digital 250 Light Duty

ACCESSORIES

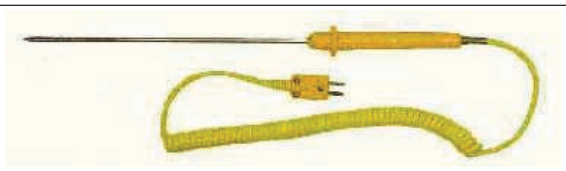
Model K-STP136, Surface
Contact Applications
8" Spring Loaded Tip Surface Probe
Maximum Temperature 950°F (510°C)
Response Time 6 seconds

Model K-STP137, Surface
Contact Applications
90° Angle Spring Loaded Tip Surface Probe
Maximum Temperature 950°F (510°C)
Response Time 6 seconds

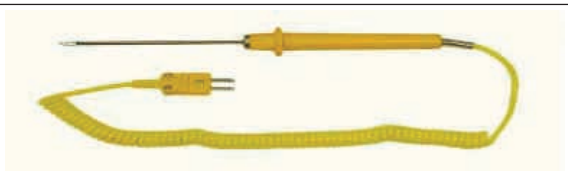
Model K-STP138, Air
Air Temperature Applications
8" Exposed Tip Air Probe
Maximum Temperature 950°F (510°C)
Response Time 4.5 seconds



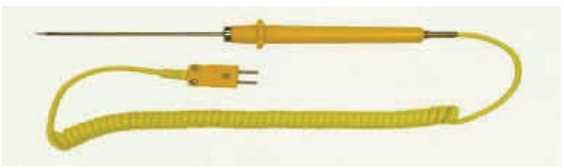
Model K-STP150, Insertion
Insertion Applications
8" Conical Tip Insertion Probe
Maximum Temperature 1562°F (850°C)
Response Time 6 seconds



Model K-STP160, Air
Air Temperature Applications
4" Heavy Duty Exposed Tip Air Probe
Maximum Temperature 950°F (510°C)
Response Time 4.5 seconds



Model K-STP161, Insertion
Insertion Applications
1Heavy Duty Conical Tip Insertion Probe
Maximum Temperature 950°F (510°C)
Response Time 6 seconds



Model K-STP162, Surface
Contact Applications
4" Heavy Duty Spring Loaded Tip Surface Probe
Maximum Temperature 950°F (510°C)
Response Time 6 seconds

PYRO'S AUTHORIZED REPRESENTATIVE: