

# TS-1 HANDHELD DIGITAL PYROMETER

## DESCRIPTION

SYSCON Sensors TS-1 is a handheld, accurate, easy-to-use, and reliable pyrometer, making it the ideal molten metal temperature measuring instrument for Foundries and Steel Mills. It can be used with molten Steel, Bronze, Cast Iron, Aluminum Alloys, Copper, Gold, Brass, and Silver. The TS-1 is ideally suited for SYSCON's thermocouple tips, available in a variety of styles and options.

## FEATURES

- Ideal for Foundries and Steel Mills
- Compatible with all standard thermocouple tips
- High overall instrument accuracy of  $\pm 3^{\circ}\text{F}$  ( $\pm 2^{\circ}\text{C}$ )
- Rechargeable battery; ~ 200 readings per charge
- Bright 0.5" (12 mm) LED display
- Automatic power shut-off after 90 seconds
- Rugged, dust-proof, NEMA panel
- Smart charging circuit with overload protection
- Low power consumption
- No mechanical switches
- One-touch to turn on, recall last temperature, or start new measurement.



## Technical Specifications

Input	1 Thermocouple Input
Thermocouple Type	Type S, R, B, K
Calibration Standard	IPTS 48 or IPTS 68
Operating Mode	Peak Detection or Continuous
Accuracy	$\pm 3^{\circ}\text{F}$ from $400^{\circ}\text{F}$ - $3300^{\circ}\text{F}$ ( $\pm 2^{\circ}\text{C}$ from $205^{\circ}\text{C}$ - $1815^{\circ}\text{C}$ )
Recommended Temperature Ranges	<ul style="list-style-type: none"><li>■ Type S,R: <math>400^{\circ}\text{F}</math> - <math>3182^{\circ}\text{F}</math> (<math>205^{\circ}\text{C}</math> - <math>1750^{\circ}\text{C}</math>)</li><li>■ Type K: <math>400^{\circ}\text{F}</math> - <math>2462^{\circ}\text{F}</math> (<math>205^{\circ}\text{C}</math> - <math>1350^{\circ}\text{C}</math>)</li><li>■ Type B: <math>400^{\circ}\text{F}</math> - <math>3308^{\circ}\text{F}</math> (<math>205^{\circ}\text{C}</math> - <math>1820^{\circ}\text{C}</math>)</li></ul>
Battery	Four 1.2 V 600 mAh AA NiCad (Nickel Cadmium)
Battery Charger	100 - 240 V 60 Hz AC Input 12 V 1 A DC Output
Charging Time	90 minutes (0-100% charge)
Housing	NEMA rated dust proof panel
Weight	4.5 lb (2.5 kg)

## Ordering Information

<b>TS-1- T-CC</b>	<b>TS-1 head unit + battery charger.</b> <b>T:</b> Thermocouple type: S, R, B, K <b>CC:</b> IPTS 48, 68 Calibration
<b>LH- T-LL-BB</b>	<b>Measurement Lance, T: Type-S, R, B, K</b> <b>LL:</b> Lance length: 36", 48", 60" <b>BB:</b> Bend radius: 00, 45, 90

## You've Been Using Our Products Since 1975!

SYSCON International, Inc. has manufactured molten metal temperature measuring and thermal analysis systems for a major private-label customer since 1975. Additional SYSCON Sensors products include:

- TS-1 Handheld Digital Pyrometer
- WM-1 Wall-Mount Digital Pyrometer
- FL-1 Ferrolab Thermal Analysis System
- Single & Multi-Use Thermocouple Tips
- Sampling Cups
- Steel Samplers
- Repair, Replacement Parts, & Calibration Services