

Ajay Syscon Private Limited A joint venture with Syscon International Inc. U.S.A.

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Digital Pyrometer For Various Industries Tempstick 429

STURDY, ACCURATE, EASY TO USE, PORTABLE & DEPENDABLE

The Tempstick 429 has evolved totally to suit a harsh and hostile industrial environment. It has proved to be the most dependable molten metal temperature measuring instrument when used with our BMD, Thermotips or Minitips for furnace, ladles and tundish in Foundries and Steel Plants.



For molten:

Copper Brass Bronze

Gold

Silver

Aluminium alloys

For Surface, Gas Fertilizer Sugar

> Chemicals Cement

Heat Treatment

Paper

Steel Cast Iron

FEATURES

- Easy to use, light weight, portable and rugged unit that survives the toughest conditions
- Plateau Detection Software
- Accuracy of ± 1°C due to its microprocessor based technology
- Overall system accuracy of $\pm 3^{\circ}C$
- Rechargeable Nickel-Cadmium battery and automatic low battery indication
- Bright 0.6" digital display
- Automatic power shut-off
- Buzzer that indicates end of the measuring cycle
- No mechanical switches
- Can be used with both lance and probe attachments
- Last reading always remains in memory
- Choice of peak hold or tracking mode in 429 K
- Available with K or S/R/B thermocouples



OPERATION

Specially designed for noble metal (S/R/B) type, the pyrometer from Ajay Syscon can take temperatures of molten steel, cast iron, copper, brass, bronze, aluminium, alloys etc.

As you dip the Thermocouple Tip in molten metal, the microprocessor reads the millivolts and mathematically converts it, to give you the temperature reading. The indicator lamps (LEDs) on the front panel indicate and sound a buzzer as the correct reading is displayed. This entire process completes within 3 to 5 seconds, after which the Thermocouple Tip can be withdrawn.

The microprocessor studies the temperature values and detects exact temperature of molten metal with its flat plateau detection method, thus rejecting variations due to slag temperature differentials, furnace hot spots, transient electrical spikes etc. When used with a permanent Marshall Probe (K-type), it is useful for applications for lower temperatures and can be used in Track/Peak Hold modes.

APPLICATIONS

Model 429 S/R/B is used in Ferrous Foundries and Steel Plants. Model 429 K can be used with different types of probes in Non-Ferrous Foundries, Fertilizer, Sugar, Chemicals, Pharmaceuticals, Cement, Paper, Process Industries, Metal Processing and Heat Treatment shop.

CONSUMABLES

Model 429 is used with Ajay Syscon's Minitips, Thermotips or BMD tips. The Minitips and Thermotips are expendable temperature sensors in cardboard tubes, whereas the BMD is a multiple dip type temperature sensor that can be reused for 6 to 8 readings in a slag free metal bath.

TECHNICAL DATA

Measuring range 540°C - 1750°C S/R/B 0 - 1200°C "K"

Calibration IPTS 68 or IPTS 48

Power supply 4 Ni/Cd Battery 1.2 V each Type 'AA'

T/C element Pt/Pt Rh 10%, 13%, 6/30% Cr / Al

Automatic cold junction compensation

Operating temperature 0 - 50°C

Linearisation Over the entire measuring range

Indication of battery voltage 460 - 545 460 indicates-charging needed 545 indicates-fully charged

Response time 3 to 5 seconds for 429 S/R/B Approx. 30 seconds for 429 K

Weight with standard lance 2.3 kg

Accuracy of display ± 1°C

Display 4 digits, 7 segment LED's Height - 0.6"

Temp. Detection method Flat Plateau - 429 R Peak Hold/Track - 429 K

Housing Dust proof Aluminium housing with handle

Error Codes: If T/C breaks during measurement, 9999 is displayed If flat plateau is not detected, 9001 is displayed If hardware problem occurs, 9002 is displayed In case of reverse input, 622 is displayed

All our products are certified to meet ISO/QS standards

Specifications may change without prior notice due to continuous development.

Metallurgical Instruments