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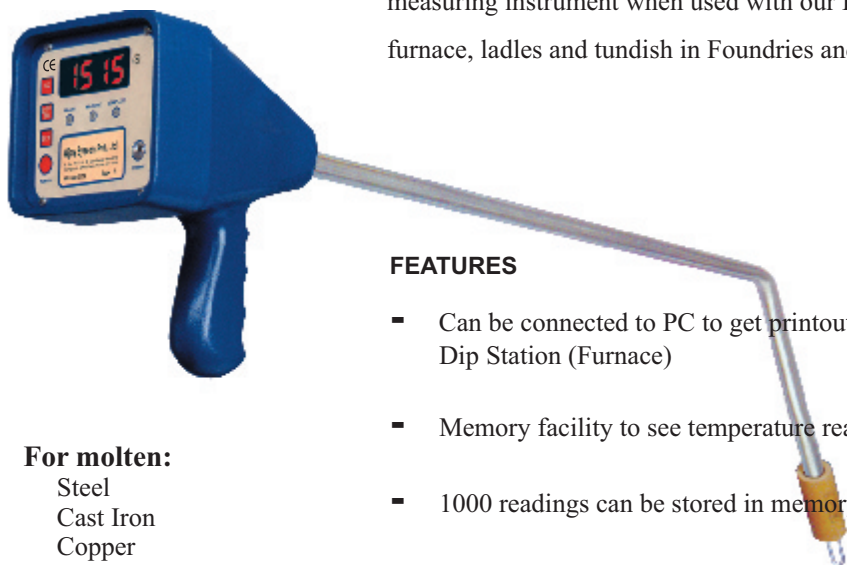


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Digital Pyrometer with Memory

For Various Industries

Tempstick 529



STURDY, ACCURATE, EASY TO USE, PORTABLE & DEPENDABLE

The Tempstick 529 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:

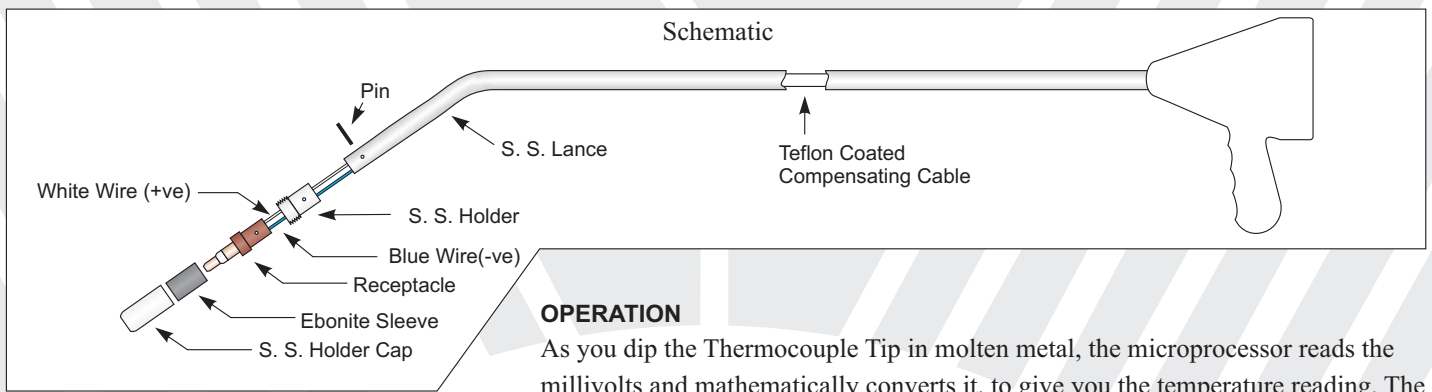
- Steel
- Cast Iron
- Copper
- Brass
- Bronze
- Aluminium alloys
- Gold
- Silver

For Surface, Gas

- Fertilizer
- Sugar
- Chemicals
- Cement
- Paper
- Heat Treatment

FEATURES

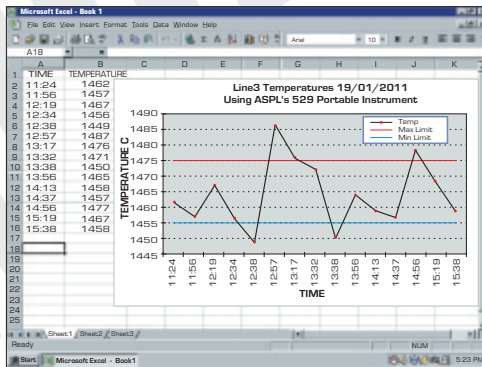
- Can be connected to PC to get printout of Temperature with Date, Time, Dip Station (Furnace)
- Memory facility to see temperature readings with furnace code number
- 1000 readings can be stored in memory
- Easy to use, light weight, portable and rugged unit that survives the toughest conditions
- Plateau Detection Software
- Accuracy of $\pm 1^{\circ}\text{C}$ due to its microprocessor based technology
- Overall system accuracy of $\pm 3^{\circ}\text{C}$
- 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 in 529 K
- Choice of peak hold or tracking mode in 529 K
- Available with K or S/R/B thermocouples



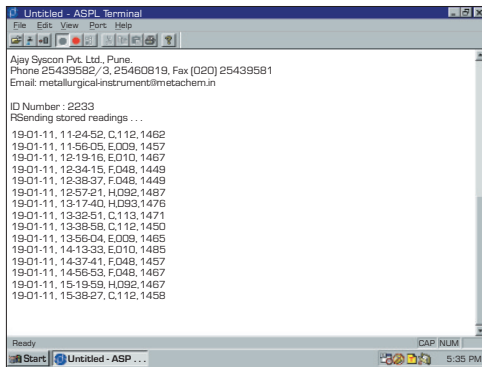
OPERATION

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 N.F. Probe (K-type), it measures lower temperatures and can be used in Track/Peak Hold modes.



Typical application of the Tempstick 529 using Microsoft Excel as a spreadsheet.



Temperature Memory Interface Screen as viewed on a PC.

APPLICATIONS

Model 529 S/R/B is used in Ferrous Foundries and Steel Plants. Model 529 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 529 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"	Operating temperature 0 - 50°C	Accuracy ± 1°C	Calibration Standard IPTS 68
Linearisation Over the entire measuring range	Display 4 digits, 7 segment LED's Height - 0.6"	Power supply 4 Ni/Cd Battery 1.2 V each Type 'AA'	Indication of battery voltage 460 - 545 460 indicates-charging needed 545 indicates-fully charged
Temp. Detection method Flat Plateau - 529 R Peak Hold/Track - 529 K	T/C element Pt/Pt Rh 10%, 13%, 6/30% Cr / Al	Response time 3 to 5 seconds for 529 S/R/B Approx. 30 seconds for 529 K with N. F. Probe	Housing Dust proof Aluminium housing with handle
Automatic cold junction compensation	Weight with standard lance 2.5 kg	Memory capacity 250/500/999 Memories	Printing Format Horizontal or Vertical (Factory Selectable)
Dip Stations/Furnace code A, C, E, F, H, J, L, P, U (9 Alpha Numeric)	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/OS standards

Specifications may change without prior notice due to continuous development.