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PRECISE MEASUREMENT OF MOLTEN METAL TEMPERATURE FOR STEEL PLANTS AND FOUNDRIES

FEATURES

TEMPMASTER® Model 570 T

- Easy to use, wall mountable, rugged, reliable and accurate unit that survives the toughest conditions

- Plateau Detection Software

- Indicates true Bath Temperature within seconds

- No false or erratic reading due to microprocessor based accuracy

- Zero Maintenance

- Automatic Error Detection

TEMPMASTER® Model 430 T

TEMPMASTER® Model 430 T / 570 T is a carefully designed equipment that makes it different from timer based Peak Hold Temperature indicator or recorder. The microprocessor scans the information received from the THERMOTIP in a new and unique way to pinpoint true temperature reading. This PLATEAU DETECTION software ignores erratic and unstable readings caused by slag temperature differentials, furnace hot spots, transient electrical spikes etc. The conversion of millivolts to temperature is also done mathematically to take complete care of nonlinear characteristics of platinum thermocouples, leaving 'no-room' for any false reading. With our THERMOTIPS or MINITIPS it takes about three seconds. This unique system while used with our different types of THERMOTIPS provides you fast and accurate control on molten metal at every stage. Signal lights on the front door indicates measuring sequence. Detection and indication of operational errors are shown on display immediately when observed. In addition to cutting the cost and maintenance free operation, it also gives comfort and safety to operator. Considering lifelong performance and low running cost, Model 570 T / 430 T gives a total economical solution.

Model 570 T transmits the data immediately after the measurement is complete via current loop port, serially to LDU.

Model 430 T is a low cost version of Tempmaster - 570 T for small steel plants and foundries to measure temperature of molten metal without facility for Large Display Unit AVP, Printer and Datalogger.

Advantages of Current loop

- High electrical noise immunity (most suitable for harsh Foundry/Steel Plant environment).

- Only two wire communication (less wiring cost).

- Long distance data transmission capability (Printer/Large Display unit can be located 300 meters away from Model 570 T).

- More than one Model 570 T and / or Printer and / or Large Display units can be connected in series.

Consumables

We manufacture various types of expendable immersion thermocouple tips based on IPTS 68 Standard with thermocouple type R/S/B
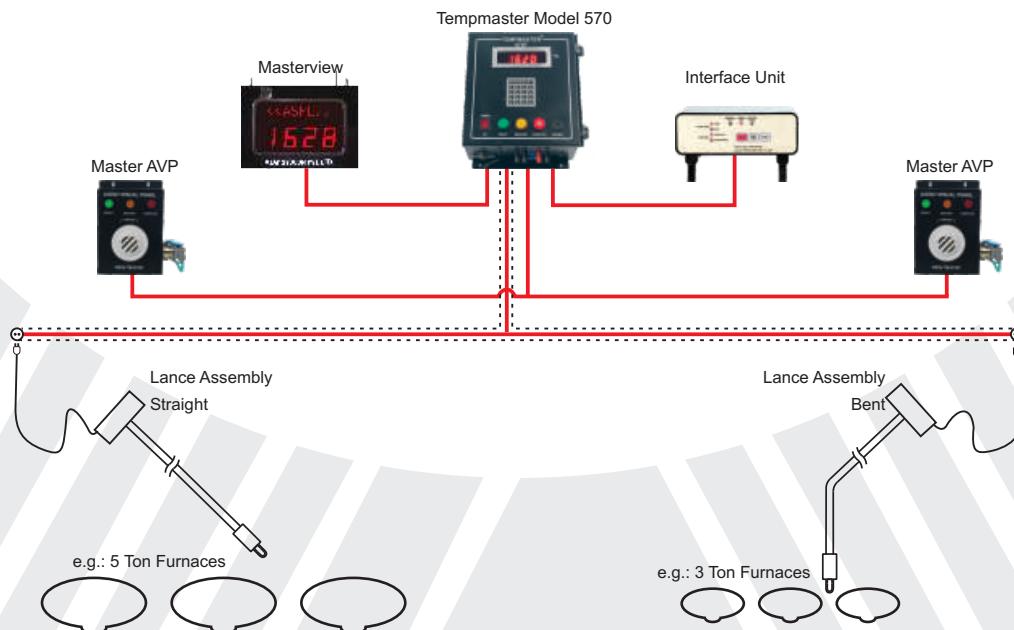
TYPE III & MINITIPS: These are useful to measure temperature of molten metal with slag, single time use. Available in different paper tube lengths.

BMD TIPS: These can be used 6 to 8 times to measure temperature of molten metal in slag free conditions.

TECHNICAL DATA

Model	570 T	430 T
Temperature Measuring Range	540°C to 1800°C	
Operating Temperature Range	0° to 50° C	
Temperature Detection Method	Flat Plateau	
Power Supply	230 V AC ± 10 V, 50 Hz	
Power Consumption	20 Watts	
T/C Element	Pt/Pt Rh 10%, 13%, 6/30%	
Accuracy	± 1° C	
Calibration	IPTS 68 or IPTS 48	
Housing	Dust Proof M. S. Cabinet	
Linearisation	Throughout the Range	
Response Time	3 to 5 Seconds	
Display Size	1"	0.6"
Facility to Connect LDU, AVP, Printer	Can be Connected	No Provision
Size in mm	305 x 165 x 350 (H)	215 x 95 x 295 (H)
Weight	7.1 Kg	3.1 Kg
Output Signal (Standard)	Serial Current Loop	–
Output Signal (On Request)	RS 232/BCD	–

TEMPERATURE MEASURING SYSTEM

Tempmaster Model 570

Masterview

Interface Unit

Master AVP

Master AVP

Lance Assembly Straight

Lance Assembly Bent

e.g.: 5 Ton Furnaces

e.g.: 3 Ton Furnaces

All our products are certified to meet ISO/QS standards

Specifications may change without prior notice due to continuous development.

Metallurgical Instruments