

## Large Display Unit



It is a Microprocessor based unit, specially designed to fulfill the requirement of a remote and magnified view (Digit height 5 inches) of temperature reading measured by model 570 T & Ferrolab, connected through current loop interface. The maximum distance of Large display unit could be 300 meters from 570 T/Ferrolab. This enables to position this large display unit at any place on the shopfloor, The temperature measured at any point on this display unit is visible from anywhere in the shopfloor. More than one Large Display Unit can be connected to Model 570 T and Ferrolab. Large Display Unit is available in 2 types, 6 digits for Ferrolab and 4 digits for Model 570 T. Large Display Unit for Ferrolab is having rolling display and displays CE, C, Si, TP, TL, TS, TF

### Specification of LDU

Display	Four Digit or Six Digit, 7 segment high intensity bright Red LED
Digit Height	5 inches standard (other sizes as per demand)
Input	Current loop 0-20 mA ASCII Serial only
Ambient	0 to 50° C
Size in mm	720 x115 x 340 (H)
Weight	12.5 Kg Approx.
Cabinet	M. S. Cabinet

## Audio Visual Panel



It is a wall Mountable Auxiliary Lamp and Hooter System. It can be used for giving a remote indication of sequence of signals (Green for Ready, Yellow for Measure and Red for Complete) and Hooter to indicate end of measuring cycle.

### Specification of AVP

Size in mm	255 x 130 x 325 (H)
Weight	4.5 Kg Approx.
Cabinet	M.S. Cabinet

### Printer M-180



The optional Printer connected to **FERROLAB & MODEL 570 T** by serial current loop interface, prints temperature readings in addition to date, time and heat number. This record can be used as an Authentic Quality Assurance document for ISO 9000.

#### Specification of Printer

Paper Size	24 Column
Weight	5.6 Kg Approx.
Size in mm	205 x 230 x 246 (H)

### Interface Unit / Datalogger



It can be connected to FERROLAB & MODEL 570 T to store the information like CE, C, Si, TP, TL, TS, TF, Date, Time and Heat No.

After selecting full print mode, it can store 400 readings for FERROLAB and 800 readings for Model 570 T. It has a centronic output and it is connectable to a parallel printer.

#### Specification of Interface / Datalogger

Size in mm	200 x 170 x 78 (H)
Weight	1.5 Kg Approx.

All our products are certified to meet ISO/QS standards

*Specifications may change without prior notice due to continuous development*

## PRECISE MEASUREMENT OF MOLTEN METAL TEMPERATURE FOR STEEL PLANTS AND FOUNDRIES

### Tempmaster Model 570 T



#### FEATURES

- Easy to use, wall mountable, rugged, reliable & 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 / 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.

### Tempmaster Model 430 T



Model 430 T is a low cost version of Tempmaster - 570 T for small steel plants & foundries to measure temperature of molten metal without facility for Large Display Unit AVP, Printer & 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 are manufacturing 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 $\pm$ 10 V, 50 Hz	
Power Consumption	20 Watts	
T/C Element	Pt/Pt Rh 10%, 13%, 6/30%	
Accuracy	$\pm$ 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	-

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