



SUPER THERMO SENSORS PVT. LTD.

COMMITTED FOR ACCURACY

Manufacturer of
Temperature Measuring
Instruments
& Thermocouple
Sensors



SUPER LAB

SPECIFICATIONS

Accuracy	: CE \pm 0.05
	: C \pm 0.05
	: Si \pm 0.10
Suitable For	: C.I/S.G/M.C.I
TFT Screen	: 7" Full Colour
USB	: USB Compatible for data backup
Bath Temp.	: R-Type 13%, S-Type 10%(1000-1760 °C)
Display Size	: 1.2 Inch Bright Red
Light for Status	: Three 22 mm for carbon cup status
Indication	: Two 22mm for Thermocouple tip status
Memory	: Upto 500 Readings with BHN, Rm, Sc
Number of Channels	: 3 Channels
Voltage	: 210 to 260 V/ 110V
Frequency	: 50 / 60 Hz, \pm 2%
Operating Temp. Range	: -20 to +55 °C

SALIENT FEATURES

1. Analyze CE, C and Si in just 40-45 Seconds.
2. Online Cooling Curve On 7 Inch TFT Color Screen.
3. USB storage, No need of Extra Software(MS-Excel).
4. In System 500 Reading Storage With respect to date and time.
5. Following parameters is to be analyzed:
 - Bath temperature
 - Carbon Equivalent (CE) / Carbon (C) / Silicon (Si)
 - Saturated Carbon (SC) / Brinell Hardness (Bhn) / Tensile Strength (Rm)
 - Pouring Temperature(TP)/Liquids Temperature(TL)/Solidus Temperature(TS)
6. Facility to configure 3 diff iron grade Grey Iron, S.G. Iron (Ductile Iron) and Malleable Iron.
7. 3 separate window for each elements.
8. Self-diagnosis and error reporting for various errors occurring during the analysis.

SUPERB CUP

SALIENT FEATURES

1. Superb cup is designed to provide accurate and consistent reading of cooling curve of molten metal for the calculation of CE, C and Si
2. Tellurium powder in the cup mixes completely in molten metal for complete white iron solidification to get easy solidus arrest for carbon and silicon determination
3. Accurate Chromel- Alumel (K-type) thermocouple with \pm 3°C accuracy
4. Quartz-tube for the protection of thermocouple wire
5. Made from high quality resin coated sand
6. We provide Superb Cup in three variants as
 1. Superb Cup S (40 -50 sec)
 2. Superb Cup M (2-3 min)
 3. Superb Cup L (3-4 min)



SUPER LAB I

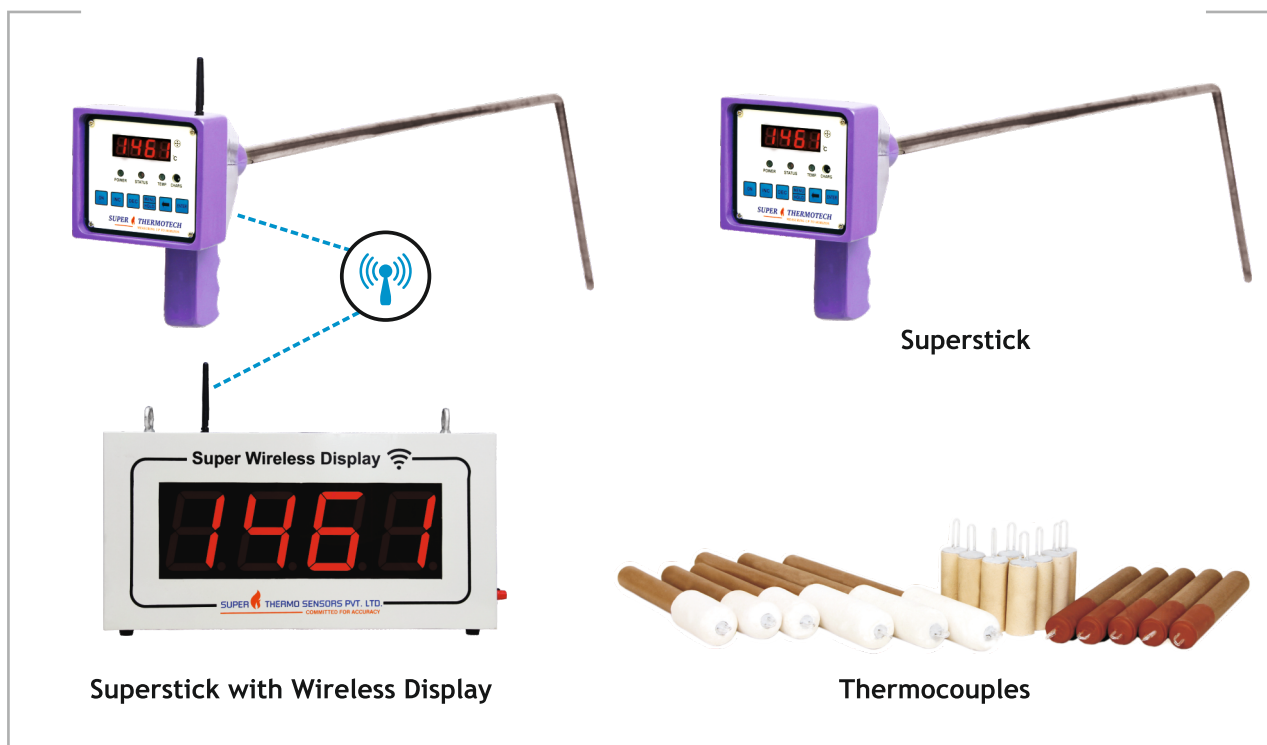


SUPER LAB II



SUPERB CUP

SUPERSTICK



SPECIFICATIONS

Accuracy	: +/-3 Degree Celcius
Power	: 3.7 volt / 2800 mAh
Temperature Range	: R Type 500° to 1750° C S Type 500° to 1750° C K Type 0° to 1370° C
Display	: 0.56" 4 digit. Seven segment bright red colour
Memory	: Upto 500 Readings with respect to date and time
PC Interface	: RS-232
Error Detection	: Broken thermocouple, Reverse polarity and unstable temp.

Our battery operated mobile super stick, helps foundries & melts shop to take temperature of molten metal in furnace & in ladle just before tapping.

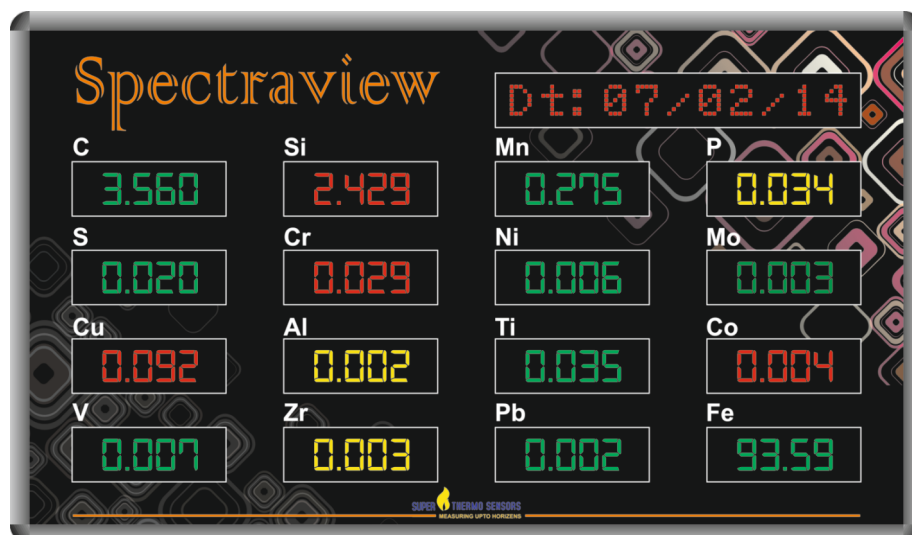
This device is battery operated and requires very low maintenance.

Superstick is designed and programmed to transfer its temperature readings to a big wireless display unit. This helps to monitor temperature of molten metal.

SALIENT FEATURES

- Accurate temperature measurement within second.
- Wireless connectivity to four inch ultra red display unit(Optional).
- Bright Red 0.56" digital display
- Heat no. and casting no. can be entered.
- Upto 500 reading storage capacity.
- Available with S/R or K thermocouples
- Auto shut down mode for longest battery life.
- Buzzer facility to indicate completion of measurement cycle.
- Sturdy enclosure.
- User friendly.

SPECTRAVIEW DISPLAY



SPECIFICATIONS

- Number of Elements** : Standard Model, 4 Digit, 12 Element or 16 Element, Ultra Bright Red LED Display
Advanced Model, 4 Digits, 12 Element or 16 Element, Tri-Colour Bright LED Display
Red Colour = Element is out of range on higher side
Green Colour = Element is within required range
Yellow Colour = Element is out of range on lower side
Customizable to user requirements for increasing or decreasing the number of elements as per requirement
- Display Size** : 1 Inch, 2.3 inch and 4 inch Models
- Audio Alarm** : Industrial Hooter, 125dB+ for Indicating new result arrival at the Melting platform
- Compatibility** : Microcontroller based Technology, which makes it compatible to any make of Spectrometer
- Multi-Display connectivity** : Possible to connect multiple displays to single Spectrometer
- Light Weight** : Due to our unique design, our device is light in weight and slim compare to any other display
- Connectivity Options** : The data is transmitted on Current loop as default But it can also be transmitted on RS485 or Wireless RF 2.4GHz License free bands as well, which is optional
- Enclosure** : CRCA Fabricated & Powder Coated Enclosure, which are rust & dust free
- Power Supply** : Standard requirement : 230V AC/ 50 Hz, Single phase
Optional : 110V AC/ 60Hz, Single phase

This is a specially designed fully customizable shop floor display especially used for sending Spectrometer Lab Analysis results directly to the Melting platform in Foundries & Steel Plants. This helps the Foundry Persons to take quick decision about any corrections to be made in the composition of their melt & increase productivity. It is designed to work with any make of Spectrometer & perform in the most extreme Harsh & Electrically Noisy Environment of Foundries & Steel Plants, so that you don't have to worry for the down time of the display & concentrate on your productivity & other core activities.

It comes in 12 Element & 16 Element Models as a standard offering, but can be customized to display any number of elements of your choice. The display is Ultra Bright Red Colour LED display and optionally you can also opt Tri-Colour Model, which can display the results in Bright Green, Yellow and Red Colour, so that it is easy for you to quickly make out, which elements should be taken care of in the current melt.

SUPER MASTER II



SPECIFICATIONS

Accuracy	: +/- 3 degree
Suitable For	: Steel plant and Foundry
Bath Temp.	: R-Type 13%, S-Type 10%(1000-1760 °C)
Display Size	: 2.3 and 4 Inch Bright Red
Enclosure	: Dust Proof
Enclosure Dimension	: 11" x 14" x 7"
Light for Status Indication	: Three 22 mm for Ready, Measure, Complete
Internal Memory	: Upto 25 Readings
Pc interface	: Data logger (Optional)
Remote display interface	: RS485 (optional)
Voltage	: 210 to 260 V/ 110V
Frequency	: 50 / 60 Hz, ± 2%
Operating Temp. Range	: -20 to +55 °C

Super Thermo Sensors Super Master -II is designed and engineered to take temperature of molten metal. This device software is based on Flat Platu Detection method for accurate, precise and faster

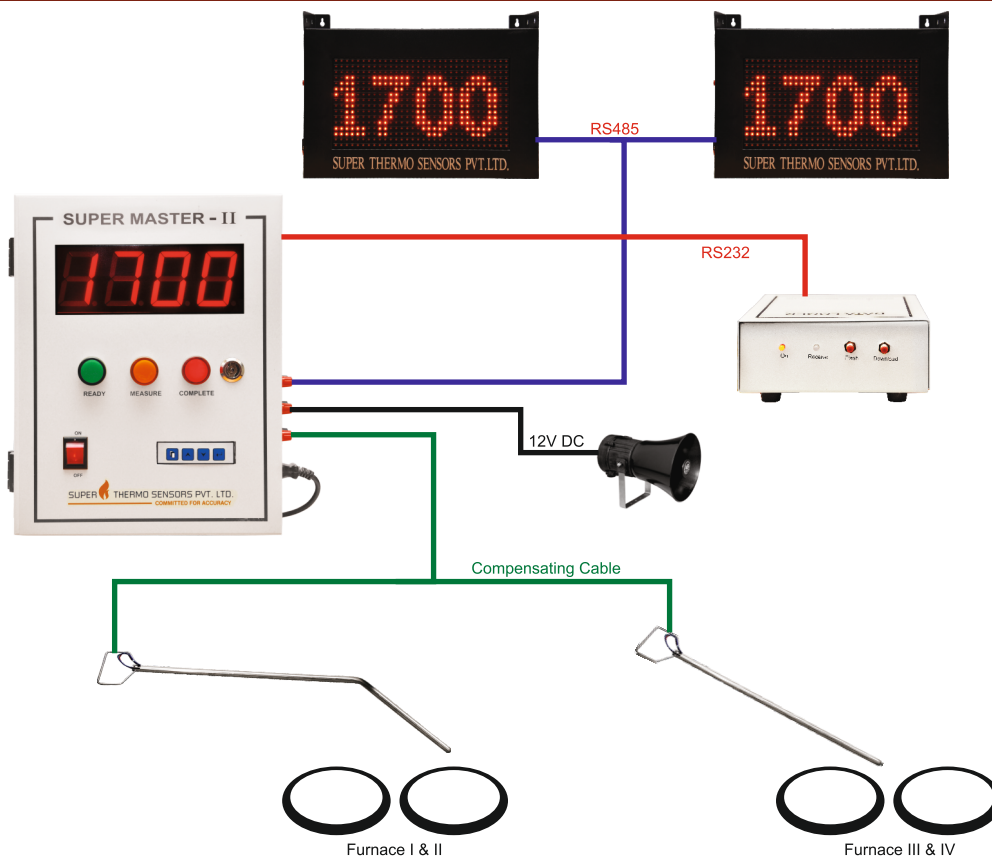
Super Master-II is designed for any location & virtually any field environment (Foundry and Steel Plant). Within 05-06 seconds device analyses temperature of molten metal.

This device has got facility to connect additional accessories such as Hotter, Data Recorder, Big Display Unit & Multiple lances. Its ability to connect multiple lances, allows it to be used to more than 01 furnace.

SALIENT FEATURES

- Accurate temperature measuring.
- Available in 2.3 inch, 4 inch bright red color display.
- Data logger facility (Optional).
- Separate indicators for thermocouple status.
- Hooter facility for completion of measurement cycle.
- Sturdy enclosure.
- Maintenance free hardware design

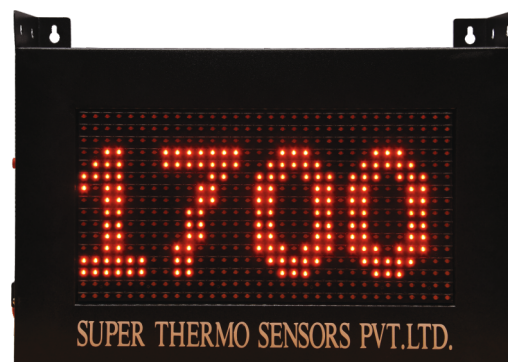
SUPER MASTER II WITH OPTIONAL ACCESSORIES



Super Master II is a mains operated pyrometer, which can be customized to connect multiple Large Display Units (LDU), Hooter, & Lances. One Super Master II can be used on 2 or more furnaces simultaneously to detect temperature of molten metal. Multiple LDU helps to display temperature to various locations for monitoring (visibility of this LDU is up to 200-300 meter). In order to store and monitor temperature, Super Master II can be equipped with a data logger, which can store readings with date & time. This device consist of a sturdy & dust proof enclosure for long life. Typically suitable for mini and large steel plants.

SPECIFICATIONS

Display Size	: 4 Inch & 6 Inch (Power LED)
Communication	: RS-485
Enclosure	: Dust Proof
Enclosure Dimension	: 17" x 14" x 5"
Distance	: Up to 500 meters
Visibility	: Up to 200 meters (for 4 inch) Up to 300 meters (for 6 inch)
Voltage	: 210 to 260 V/ 110V
Frequency	: 50 / 60 Hz, $\pm 2\%$
Operating Temp.	: -20 to +55 °C
Range	



Large Display Unit

SPECIFICATIONS

To store data with respect to date & time

Memory Storage	: 400 readings
Communication	: RS-232
Indicator	: - Power LED - Flash LED for Incoming Data
Switch	: Data Download & Erase Facility
Enclosure	: Dust Proof
Enclosure Dimension	: 7" x 3" x 8"
Voltage	: 210 to 260 V/ 110V
Frequency	: 50 / 60 Hz, $\pm 2\%$
Operating Temp.	: -20 to +55 °C
Range	



Data Logger
(For Super Master II & Super Lab)

THERMOCOUPLE TIPS, SAMPLERS & SPARES

Super Mini



- Available in S/R/B Type
- Connector Type : Male
- Can be used in foundry and steel plants
- Available in Paper Tube sizes from 300mm to 1500mm
- Can detect Temperature in slag condition
- Paper tube ID 18MM, OD 30 MM

Super MTR



- Available in S/R/B Type
- Connector Type : Male
- Can be used in foundry and steel plants upto 5 ton furnace
- Available in Paper Tube sizes from 300mm to 400mm
- Can detect Temperature 6 to 7 times in slag free condition only
- Paper tube ID 18MM, OD 30 MM

Super BMD



- Available in S/R/B/K Type
- Connector Type : Male
- Can be used in foundry and steel plants upto 3 ton furnace
- Available in Ceramic Tube sizes 21mmx30mmx75mm BMD
- Can detect Temperature 6-8 times in slag free condition

Super Steel Mark VII



- Available in S/R/B Type
- Connector Type: Male
- Can be used Specially in Steel plants
- Available in Paper Tube Sizes from 300mm to 1800mm
- Can detect Temperature in slag condition
- Paper tube ID 18MM, OD 30MM

Super Steel Mark III



- Available in S/R/B Type
- Connector Type : Mark III - Female
- Available in Paper Tube Sizes from 300mm to 1800mm
- Can detect Temperature in slag condition
- Paper tube ID 28MM, OD 40MM

Super Multi Use



- Available in S/R/B Type
- Connector Type : Mini / Mark VII
- Available in Paper Tube Sizes from 300mm to 400mm
- Can detect Temperature in slag free condition
- Readings 8-10 times per Tip

Sampler



- Temperature Range : Between 1580°C and 1720°C
 Sample shape : Oval (43 mm x 32 mm)
 Round : (41 mm x 32 mm)
 Paper tube ID / OD : 39/49 mm (Minimum)
 De-oxidants : As per customer requirements (Plain, Aluminum, Titanium, Zirconium)

Spares



We can supply wide range of SPARES like :-

- R/S Type Outside Lance Cable
- R/S Type inside Lance Teflon Coated Cable
- Recepticals / Connectors
- Teflon Coated Sleeve
- Hooter
- Battery Charger
- Batteries

