

Suyash[®]
SOLUTIONS PVT. LTD.
An ISO 9001 Company

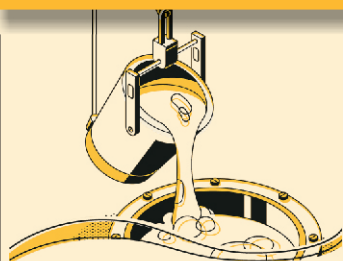
IN COLLABORATION WITH
Sensors & Probes s.r.l. Italy



THE PERFECT 'SOLUTION' FOR THERMAL ANALYSIS AND TEMPERATURE MEASUREMENT



QUALITY BEYOND SPECIFICATIONS



Temperature Indicators

Digital Temperature Indicators with temperature latching MHD-136



	Micro processor based Portable Temp. Indicator HH-136	Micro processor based Wireless Portable Temp. Indicator WHH-136	Micro processor based Mains Temp. Indicator MHD-136
Temperature Measuring Range	500°C to 1760°C	500°C to 1760°C	500°C to 1760°C
Operating Temperature Range	0 to 55°C	0 to 55°C	0 to 55°C
Accuracy	± 3°C	± 3°C	± 3°C
Supply Voltage	5.5 V DC 4 AA size Ni/Cad battery	5.5 V DC 4 AA size Ni/Cad battery	110/230 VAC 50 Hz
Housing	Aluminium	Aluminium	M. S.
Thermocouple Element	Pt/PtRh 10% & 13%	Pt/PtRh 10% & 13%	Pt/PtRh 10% & 13%
Calibration	IPTS 68	IPTS 68	IPTS 68
Display	10 mm LED	10 mm LED	100 mm LED
Memory	100 Readings (1000 Readings on request)	100 Readings (1000 Readings on request)	256 Readings
Facility to connect printer, computer	Provided	Provided	Provided
Out put Signal	RS 232

Products with CE marking



Wireless Portable Indicator WHH-136 | Gateway & Router | Various Displays



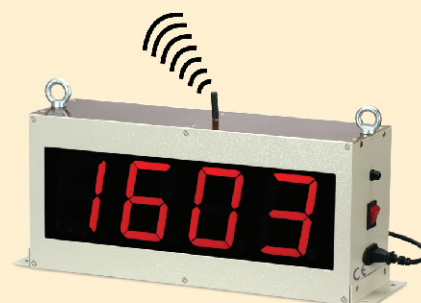
Peak Latch Temp. Indicator MHD-136 | Gateway & Router | Various Displays

Industry 4.0 Compatible Data Compilation And Analysis



Wireless Portable Indicator - WHH-136

Portable Indicator HH-136



Jumbo display with wire or without wire (Wireless communication)



Temperature Tips

For Steel Plant and Foundry

IN COLLABORATION WITH
Sensors & Probes s.r.l. Italy



All thermocouples are manufactured with state of art technology and the latest Italian production lines are installed at our works. Use of high strength parallel wound paper tubes.

Why SUYASH Temperature Tips

Instant results | High reliability | Assured quality | Time tested performance | Economical & easy to operate
Low density ceramic fibre tips **enhances operator's safety and avoids overheating of tip holder**

Available in type R/S/B in various lengths and Mark VII / Male Tip Holder

Temperature Tips for foundry use



High thermal resistivity



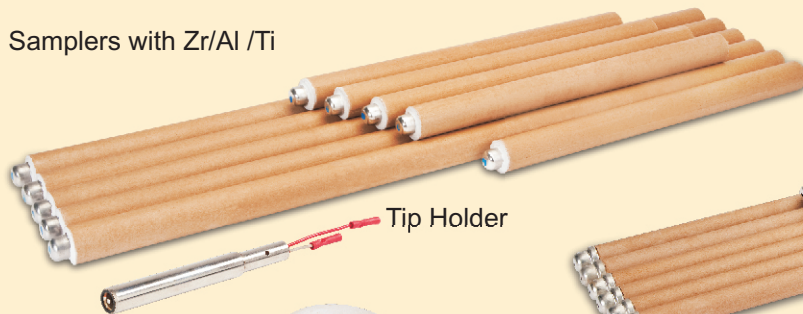
Anti Splash and Multi Use



Temperature Tips SMS-boF, Converter, Arc Furnace, LF, VD

Samplers with Zr/Al /Ti

Temp. Tips of various sizes and lengths up to 1800 mm



Tip Holder



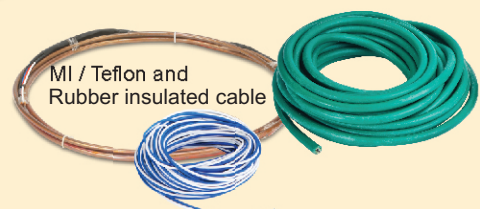
Moisture free shrink wrap packing



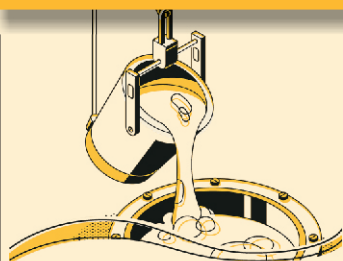
Crucibles



Oval & Round spoons with quartz tube



MI / Teflon and Rubber insulated cable



Oxilab[®]

Display | Gateway | Oxylab



Steel making plants applications

Oxyprobe Model	Applications			Suyash Instrumentation
	Electric Arc Furnace	Induction Furnace	BOF	
Oxyprobe	✓	✓	✓	✓
Oxypro OM	✓	✓	✓	✓

Low PPM (less than 30 PPM) and High PPM probes available.

Type S R or B Platinum calibration.

Measure to 1750°C type S and R, 1800°C type B.

Get very quick, reliable and accurate Carbon prediction in BOF and EAF.

Help to control the de-oxidation in steel and in ductile iron.

Non splash protection in different lengths.

Oxyprobes



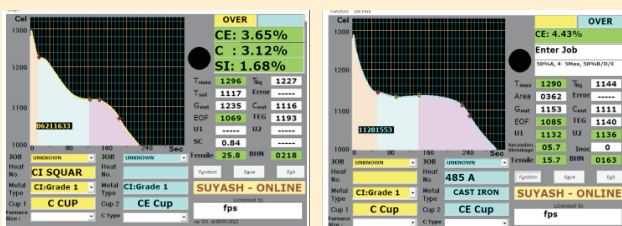
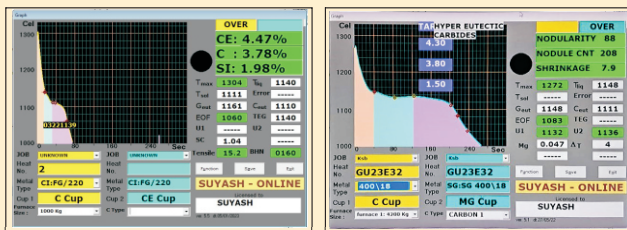
Holder for Oxyprobe



Suyash ONLINE[®] SG Iron & Cast Iron

Salient Features

- Job name, heat number, Iron type stored with curve for data analysis.
- Various target levels are set for each job to alert the operator.
- Detects several points on cooling curve to understand behavior of solidification.



For S G Iron

Features with Carbon cup

- Can analyse composition of very high CE values. Target levels for each job to alert the operator.
- Job, Heat / Melt number, Iron type are stored for data analysis.
- Job-wise charge calculation can be seen.
- Facility to feed composition of Steel, Pig iron, Returns etc. to calculate charge mix.
- Recommended alloy addition from the results of Spectrometer/Carbon Silicon Analyser is displayed.

Features with CE cups

- Nodularity
- Nodule count
- Secondary Shrinkage
- Solidification Mode of treated metal : Hypo-Eutectic, Eutectic Hyper- Eutectic or their combination is detected.
- Carbides detection
- Residual Magnesium detection

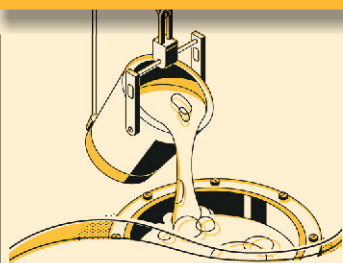
For Cast Iron

Features with Carbon cup

- Job-wise charge calculation can be seen.
- Facility to feed composition of Steel, Pig iron, Returns etc. in order to calculate suitable charge mix.
- Complete Log sheet is maintained.
- Recommended additions are displayed after cup is poured.
- Micro shrinkage tendency is predicted by detection of low melting point alloys like phosphide eutectic etc.
- Hardness and Tensile strength of unalloyed cast iron.

Features with CE cups

- Prediction of type of graphite (microstructure Type A, C, D /E)
- Undercooling & Recalescence
- Eutectic Cell count
- Degree of saturation
- Shrinkage tendency
- Chilling tendency
- Inoculation factor



Carbon Silicon Analyser®



Carbon Silicon Analyser® | Gateway & Router | Various Displays

**MOST ECONOMICAL WAY
FOR INSTANTANEOUS AND
DEPENDABLE ANALYSIS
OF MOLTEN GREY / S.G./
MALLEABLE IRON
BEFORE POURING**

Specially designed equipments
considering extreme
foundry conditions.
Online temperature indication
during the process.
Self diagnosis for various errors
during process.
Practically maintenance free.

	CSA Model III	Suyash ONLINE®
Accuracy (Specified or better)	CE \pm 0.05 C \pm 0.05 Si \pm 0.10	CE \pm 0.05 C \pm 0.05 Si \pm 0.10
Recommended Use	C.I./S.G./M.C.I.	C.I./S.G./M.C.I.
Temp. measurement with Tips	Provided	Provided
Number of Channels	3	3
Graphical PC interface	---	Provided
Data transfer to computer	Provided	Provided
4" Jumbo Display	Optional	Optional
Processing time	@ 45 Sec.	@ 45 Sec.
Hardness / Tensile Strength	Provided for CI	Provided for CI
Printing	← Serial Port & Parallel Port →	
Operating Range	- 20 to +55°C	- 20 to +55°C
Voltage	110 / 230 V AC	110 / 230 V AC
Frequency	50/60Hz, \pm 2%	50/60Hz, \pm 2%
Display	25 mm LED Hi Glow Type	User Provided PC
Memory	96 Readings	User Defined
Dimensions (mm)	350 X 180 X 230	350 X 190 X 270
Net Weight	6.5 Kg.	7.5 Kg.

Products with CE marking



Carbon Cups®

Environment friendly design

State of art automation to ensure high level of consistency.

Patented Technology

India Patent No. 222847

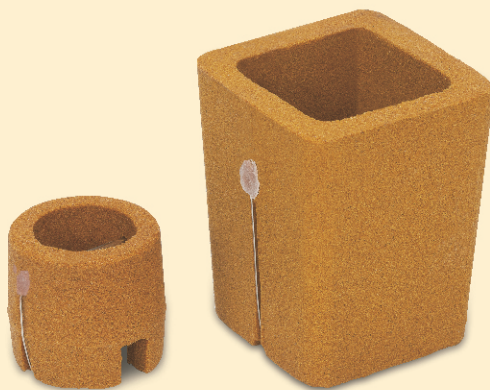
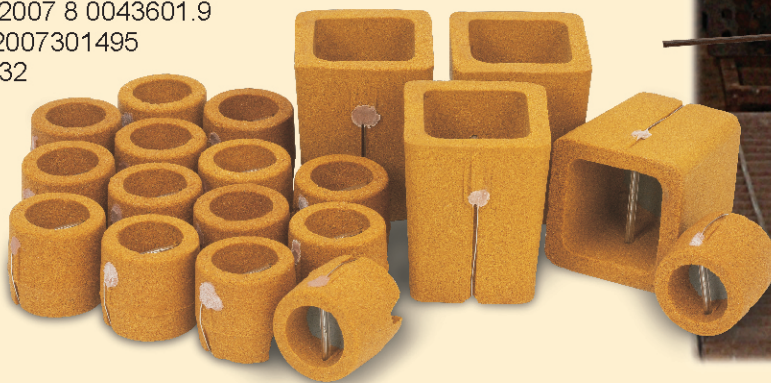
Malaysia Patent No. MY-146981-A

China Patent No. ZL 2007 8 0043601.9

Australia Patent No. 2007301495

EU Patent No. 2067032

Quicker thermal analysis is essential for modern / fast melting furnaces



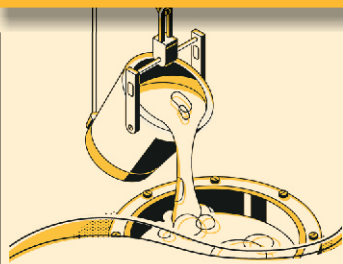
New Super Cup

Squire Cup

	NEW SUPER CUP	SQUARE CUP
Time Required	30-35 Seconds	150 Seconds
Metal in the Cup	30 gms	240 gms
Storage & Transport cost	1	4
Energy Saving	Yes	----
Accuracy	Consistent with High CE	Inconsistent with High CE



Sampling Crucible available in different diamentions



Suyash Solutions Private Limited (India) started in 1988, when two young engineers, just graduated from renowned engineering college in India, with a desire to design their own products and market, got together and launched a company.

That was the beginning of **Suyash Solutions Pvt. Ltd.**

Situated in Pune, an IT and Auto hub, 150 km from Mumbai, India, SUYASH is a technology driven organization. SATISH KELKAR and ANANT KAKATKAR, the two Promoters and Directors specialized themselves in Thermal Technology. They mainly targeted Steel and Iron Market. Their design competence and the back up of Research & Development gave birth to Temperature Measuring Instruments, Carbon Silicon Analysers, Temperature measurement tips and Carbon Cups used for chemical analysis, Oxylab and Oxyprobes for measurement of dissolved oxygen in steel.

Unique design of Carbon Cups with its state of the art software, encouraged SUYASH to go for world wide Patent. With all the systems as well as SAP in place, ISO 9001 certification and CE marking has been a natural outcome.

To accelerate the process of further improvements in Automation, Manufacturing Techniques and addition to Product Range, both the directors decided to join hands with an Italian company **SENSORS & PROBES Srl. Italy**. This major decision has given SUYASH improvement in productivity, elimination of possible human errors and addition of established high temperature measuring thermocouples for steel along with Oxygen Measuring Probes.

Ultimate desire of promoters, to go global, has now started taking shape. Appointment Of agents in Indonesia, Italy, Malaysia, Philippines, Thailand, Spain, Turkey, UAE & USA is just a beginning.



AN ISO 9001 COMPANY

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