

Thermtip®

Disposable thermocouple



Thermtip® is a disposable thermocouple sensor used to measure the temperature of molten metal. Accurate measurement of molten metal temperature is highly critical during steel making since it allows precise control of the process leading to high efficiencies.

Thermtip® uses noble metal thermocouples types B, R and S to measure the molten metal temperature. The temperature measurement is based on the Seebeck effect wherein a temperature difference between 2 dissimilar conductors produces a voltage difference proportional to the difference in temperature. The voltage generated by the temperature difference is conducted to a remote instrument to measure the temperature.

The following are the specifications of the different types of thermocouples offered:

Thermocouple type	Thermo-element	Temperature range
S	Pt/10%Rh-Pt	1000-1700°C
R	Pt/13%Rh-Pt	1000-1700°C
B	6%Rh-Pt/30%Rh-Pt	600-1750°C

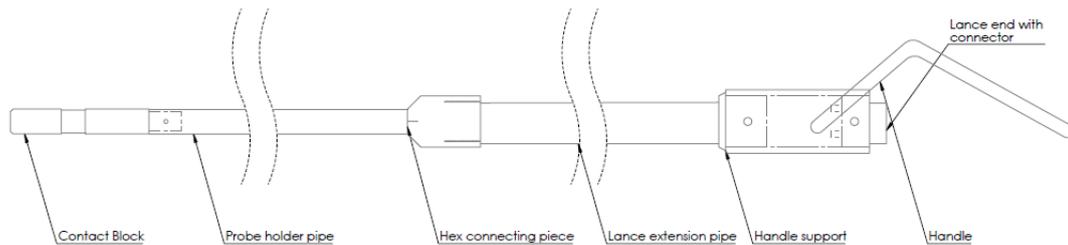
Standard calibration is ITS90 (IPTS-68). Special thermocouples with IPTS-48 calibration can be provided on request.

Accuracy of measurement is $\pm 1^\circ\text{C}$ at 1554°C Palladium melting point

Thermtip® is manufactured by Ardee using high quality raw materials from leading suppliers in the world. Each probe undergoes several checks before being dispatched to customers in order to ensure reliable and repeatable measurement.

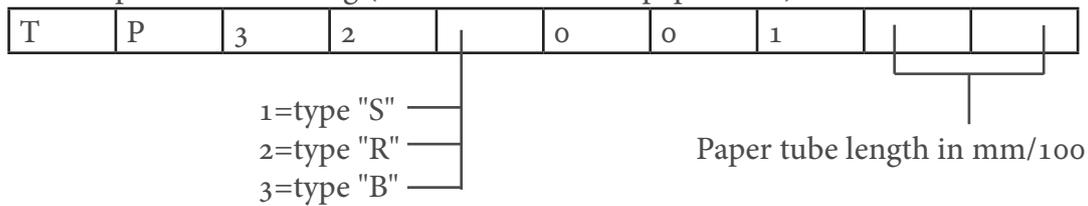
Different lengths of paper tubes are available and can be offered. Thermtip® sensors are compatible with all international makes of accessories and instruments as well as all automatic manipulators.

Full set of Thermtip® accessories required for accurate measurements are also offered including contact blocks, interior mineral insulated cables and exterior compensating cables. In addition, standard measurement accessories such as probe holder tube, lance tube, hexagonal connectors, lance end connectors and lance handles are also offered.

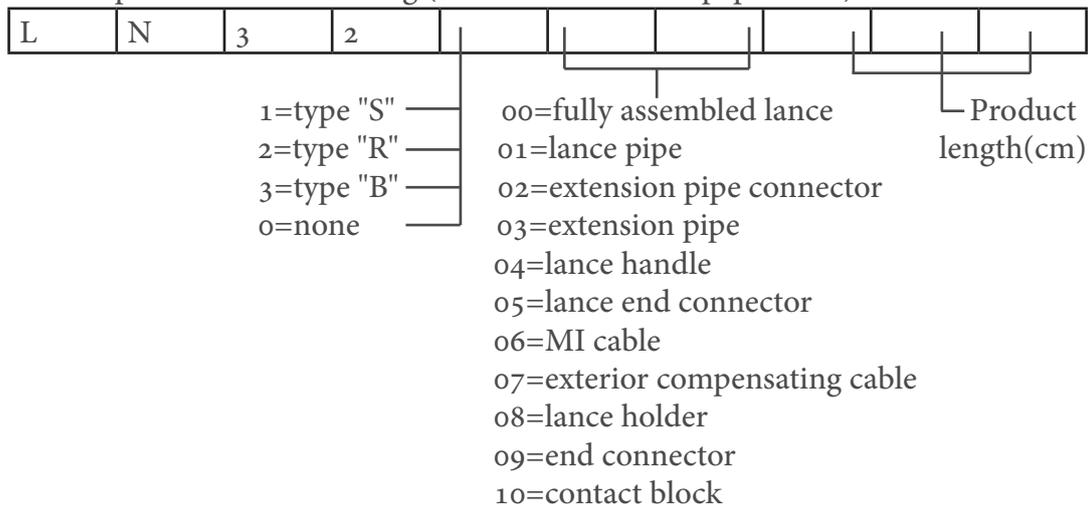


Ordering information

Thermtip® sensor ordering (Standard 18mm ID paper tube)



Thermtip® accessories ordering (Standard 18mm ID paper tube)



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