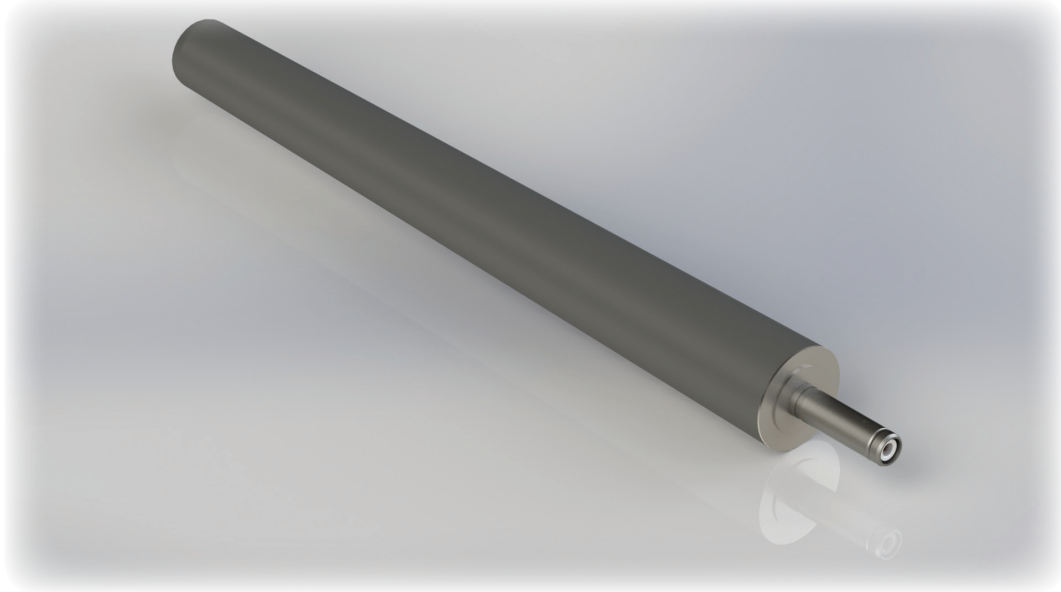


# Exatemp<sup>®</sup>

## Continuous Temperature Measurement



Exatemp<sup>®</sup> is a continuous temperature measurement sensor manufactured by Arrdy is used for measuring real time temperature in the tundish. It is applied through the side wall or the bottom wall of the tundish via a well block and is sealed and held in place using an embedding mortar and a retaining plate. It is a reliable and accurate way of measuring molten metal temperature in the tundish on a continuous basis. Exatemp<sup>®</sup> is offered in type B thermocouple calibrated to ITS -90 standard. Each Exatemp<sup>®</sup> sensor undergoes stringent quality checks at various stages of manufacturing thereby ensuring a consistent and reliable performance.

The Exatemp<sup>®</sup> sensor is constructed using a thermocouple protection tube fitted in a alumina-graphite refractory sheath. The refractory sheath provides the first protective layer for the probe. It is formulated so as that there is practically no loss in temperature due to thermal gradient and the temperature which the thermocouple reads is accurate. The thermocouple is also protected from high temperature oxidation and also from corrosive gases, etc using a proprietary "getter" material thereby extending the life of the probe greatly. The sensor also uses a patented venting and insulation system to minimize oxidation of the thermocouple wires as well as to insulate the cold junction effectively thereby providing greater measurement accuracy than existing systems.

The Exatemp<sup>®</sup> sensor has a significant advantage over conventional dip-type thermocouple measurement. The sensor measures the temperature of the molten metal, much closer to the casting point than dip-type thermocouples and hence indicates the true temperature of the exiting metal. The real time temperature measurement also offers the operators a great decision making tool to control the casting speed efficiently. Caster break-outs due to temperature related issues can be minimized which in turn saves valuable time and operating costs. Loss in metal at the end of the casting sequence can also be controlled since an accurate metal-slag interface can be known with a change in the sensor reading.

All accessories and instrumentation are also offered including hot-zone cables, embedding mortar, well block and continuous temperature acquisition instrument, large display, etc.

The sensor can also be highly customized to meet customer requirements.

### Ordering information

#### Exatemp® Continuous Temperature Probe

C	N	3	2	3	0	0	2	4	6
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Continuous temperature probe with type B thermocouple as standard in refractory sheath.

Temperature measuring range = 600-1800 °C

Length = 460mm

Special lengths and thermocouple types are available on request.

#### SIDE WELL BLOCK

C	N	1	0	8	6	0	2	6	2
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#### SIDE WALL RETAINING PLATE

C	N	1	1	8	2	5	1	6	1
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#### EMBEDDING MORTAR

C	B	2	3	8	0	8	7	2	0
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Available in 25 Kg bags

#### HOT ZONE CABLE

C	N	2	0	8	0	2	5	6	2
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Standard length of hot zone cable is 5m. Special lengths are available on request.

\*Patented



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