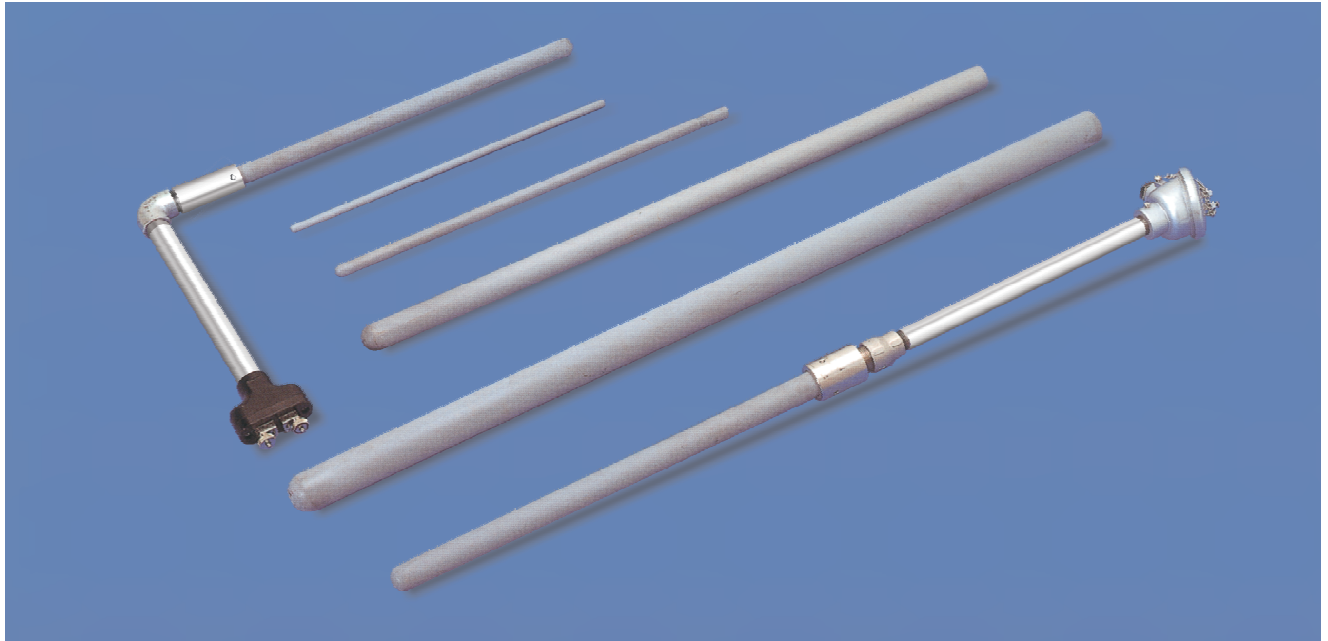


# MeltAL THERMOCOUPLES

## CONTINUOUS TEMPERATURE MEASUREMENT OF MOLTEN ALUMINIUM

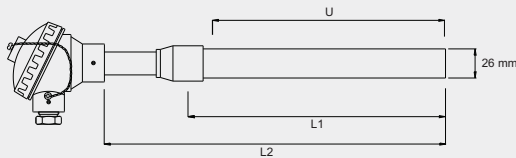


RADIX ELECTROSYSTEMS PVT. LTD. offers a permanent solution to temperature measurement of molten aluminium.

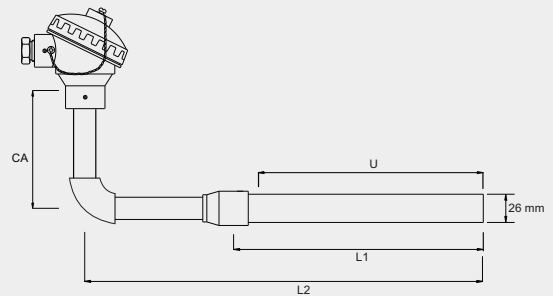
MeltAL is a new material designed to withstand molten aluminium corrosion much longer than any other material. Like ceramics, it has good

heat and abrasion resistance. Unlike ceramics, it is not brittle.

Due to high thermal conductivity and low co-efficient of thermal expansion, it can be used without preheating. MeltAL assemblies are available in different configurations as shown below.



**STRAIGHT**



**ANGULAR**

### SPECIFICATIONS

#### THERMAL RESISTANCE

**Maximum** 800 °C (Liquid Aluminium)  
**Continuous use** 760 °C (Liquid Aluminium)

#### PHYSICAL PROPERTIES

**Bulk density** 3.1 g/cm<sup>3</sup>  
**Flexural strength** 690 MPa  
**Thermal shock resistance** 700 °C  
**Apparent porosity** < 0.1%  
**Thermal expansion coefficient** 3.5 x 10<sup>-6</sup> (RT-100 °C)

### ORDERING INFORMATION

- Specify : Sheath Length - L1  
 Total Length - L2  
 Cold Arm Length - CA
- Standard dimensions for 'L1' : a) 500 mm b) 700 mm
- Immersion Length 'U' : (L1 - 50) mm
- Minimum order quantity for other sizes of 'L1' : 5 Nos.

### DIMENSIONS (MM)

OD	ID	Length (L1)									
9	5	-	500	-	-	800	-	-	-	-	-
26	17	-	500	-	700	-	-	1000	-	-	1400



Radix Electrosystems Pvt Ltd

A566, MIDC, T.T.C. Industrial Area, Mahape, Navi Mumbai - 400 710

Tel : + 91 22 42537777 / 41929999

Email : sensors@radix.co.in • www.radix.co.in