

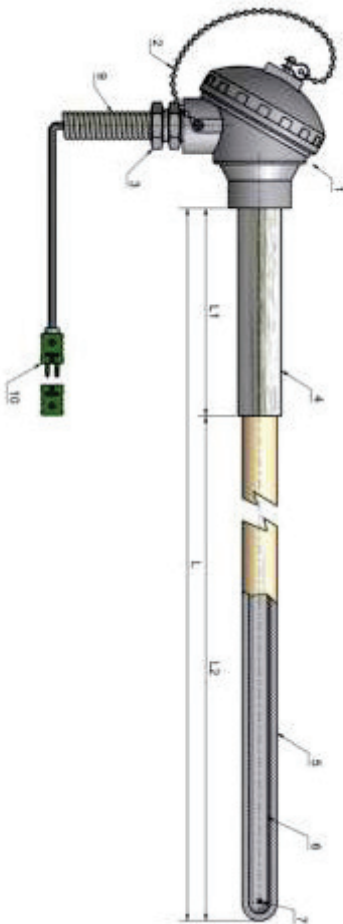
THERMOCOUPLES FOR FURNACE AND REGENERATOR CROWN

Glass Melting Furnace includes a melting chamber in which solid batch materials are heated to produce molten glass. The arch of this melting chamber is known as crown. To measure and control the temperature of furnace crown is important, because with the correct temperatures one can improve the service life of crown, as the overheating of the crown may cause of early erosion of crown refractory and on the other side if the temperatures are low, it can affect the melting efficiency and will increase the fuel consumption. The highest temperature in melting furnace is at crown. To select the right materials and assembly is quit important as the temperature at crown is even more than 1600°C. The design we recommend is with dual protection HWT (Heavy Wall Thickness) ceramic sheaths. In most of the furnaces, thermocouples are placed in block pockets, but over a period of service it may get through hole. At crown there are number of points to measure in center, right and left, the same kind of assemblies can be used for regenerator crown as well.

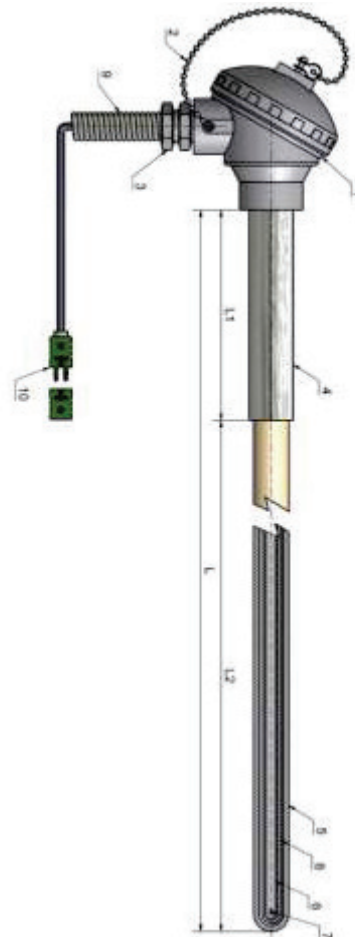


Type	TI/GL/05 - A/B
Measuring Range	100 To 1600°C
Sensor Type	"R"/"S"/"B"
Protection Sheathing	Recrystallised Alumina KER-710 (C-799) Tube
Application	Furnace Crown , T/C Pockets, Regenerators Crown.

S.No.	Description
1.	SS/Aluminium Connection Head IP-67.
2.	SS Chain.
3.	½" NPT(M) Cable Gland.
4.	Holding Tube : (Inconel - 600/SS310).
5.	Recry. Alumina Outer Tube :- OD X ID to be specified.
6.	2/4 Bore Recry. Alumina Insulating Tube.
7.	PTRH-PT Thermocouple Element R/S/B type
8.	Inner Tube suitable to outer tube.
9.	Ceramic Fibre Insulated Compensating Cable
10.	M/F Connector



TI / GL / 05 - A
(Single Protection)



TI / GL / 05 - B
(Double Protection)