

The thermocouple junction in this model is isolated from the corrosive and invasive gases by using a constant air purge system across the junction.

Air purge system is kept at a pressure higher than the internal reactor pressure to avoid the entry of hazardous process gases inside the inner tube as the ceramic tube is the porous one. This is required to avoid the thermocouple oxidation and to get a fair life.

Glass sealing is done below the terminal block / on the inset top to avoid accident during the breakage of ceramic tube, as it acts as a pressure boundary wall & stop the inner pressure to come out through the head.



## SPECIFICATIONS

<b>Measuring Range</b>	Ambient to 1500°C (S Type/R Type/ B Type)
<b>Type of Sensor</b>	Simplex, Duplex (Ungrounded)
<b>Sheath Materials</b>	Ceramic KER – 710/C799
<b>Flange Material</b>	Carbon Steel or Stainless Steel
<b>Working Pressure</b>	Up to 10 Bar