



Construction

Ceramic wire wound PRTDs allow for the most accurate temperature measurement due to its construction. Platinum sensors with ceramic wire wound design have been, throughout the decades, the most reliable way to measure temperature in industrial applications.

The basic construction consists of a fine sensitive platinum wire in the form of a coil, housed in the bore holes of a high-purity alumina ceramic tube. Both ends of the coil are connected to two connection leads which are then fixed to the ceramic body with a high temperature sealing bond.

This construction leaves the platinum coil free to move within the ceramic tube, giving the PRTD outstanding long-term stability and good vibration resistance. In addition, its construction assures high mechanical stability which is insensitive to external forces, while also allowing for the use of higher measuring current.

Two separated coils can also be embedded into just one ceramic tube, forming a duplex element.

The manufacturing of this CWW PRTDs requires not only the highest quality platinum wire but also a strict process control of all stages of production.



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