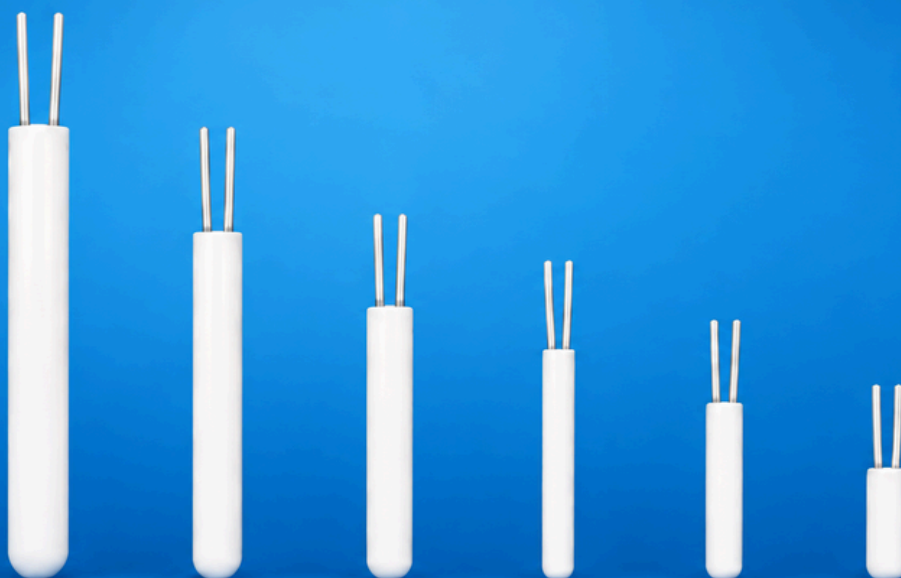




Product Range

Thermal Developments International Limited

HAND MADE PLATINUM RESISTANCE TEMPERATURE DETECTORS



Complete detector range

Hand made platinum resistance temperature detectors

TDI produce a wide range of detectors, using wire conforming to IEC 60751. Drawings are shown to a common scale. All measurements in millimetres.

Single Coil Model	Duplex Model	Scale Drawing	Ceramic Length (mm)	Ceramic Diameter (mm)	Sensing Length (mm)
P100/5024	P2100/5024		50	2.4	47 ±1
P100/5015	P2100/5015		50	1.5	47 ±1
P100/3045	P2100/3045		30	4.5	27 ±1
P100/3038	P2100/3038		30	3.8	27 ±1
P100/2532	P2100/2532		25	3.2	22 ±1
P100/2528	P2100/2528		25	2.8	22 ±1
P100/2524	P2100/2524		25	2.4	22 ±1
P100/2515	P2100/2515		25	1.5	22 ±1
P100/2020	P2100/2020		20	2.0	17 ±1
P100/1545	P2100/1545		15	4.5	12 ±1
P100/1532	P2100/1532		15	3.2	12 ±1
P100/1530	P2100/1530		15	3.0	12 ±1
P100/1528	P2100/1528		15	2.8	12 ±1
P100/1524	P2100/1524		15	2.4	12 ±1
P100/1520	P2100/1520		15	2.0	12 ±1
P100/1516	P2100/1516		15	1.6	12 ±1
P100/1515	P2100/1515		15	1.5	12 ±1
P100/1512	—		15	1.2	12 ±1
P100/1509	—		15	0.9	12 ±1
P100/1508	—		15	0.8	12 ±1
P100/1016	—		10	1.6	8 ±1
P100/1012	—		10	1.2	8 ±1
P100/1008	—		10	0.8	8 ±1
P100/0815	—		8	1.5	8 ±1
P100/0620	—		6	2.0	6 ±1

Guide only — other types are available. Please call.

Technical articles and an RTD tolerance calculator: t-d-i.co.uk

About TDI

What we make

TDI manufacture coil wound platinum resistance detectors. They are bought by sensor manufacturers, who build complete resistance thermometers from them. We do not produce finished thermometer assemblies.

Detectors are wire wound, partially supported, and housed in ceramic. The platinum coil is held by a bonding material that restrains it without gripping it, so the coil can expand without strain on the wire.

Types Available

All TDI detectors are wire wound platinum resistance types, ceramic housed. Known by a variety of names and terms including temperature detectors, PRTD, (Platinum resistance temperature detectors) RTD or RTDs (resistance temperature detectors). Most PRTDs are constructed to have a nominal resistance of 100 ohms at 0 °C Pt100 but almost any value between 1 Ohm to 1000 Ohm can be made including 25 Ohm and 100 Ohm. Types include Pt25, Pt100 and Pt1000. TDI temperature detectors comply with the requirements of IEC 60751

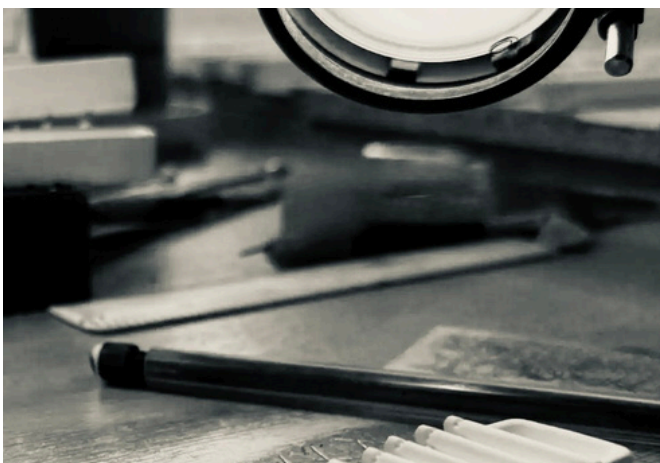
Thermal Developments International produce a wide range of partially supported, wire wound Platinum Resistance Temperature Detectors to the highest international standards. The construction chosen gives the best compromise between ruggedness and stability of any of the available industrial PRTDs

Resistance values

Most of our detectors are made with a nominal resistance of 100 Ω at 0 °C. Values between 1 Ω and 1000 Ω can be made, including Pt25, Pt100 and Pt1000.

Quality

Quality control is provided by Isothermal Technology, with all our reference standards calibrated in Isotech's UKAS-accredited laboratory in accordance with ISO/IEC 17025.



TDI facts

Established 1983. Every detector is made by hand at Southport, England.

TDI supply sensor manufacturers, who build complete resistance thermometers from TDI detectors.

Detectors are wire wound, partially supported and housed in ceramic.

Over 6 million detectors made since 1983.

Wire conforming to IEC 60751. Tolerances to 1/10 Class B are routinely supplied.

Nominal resistances from 1 Ω to 1000 Ω , including Pt25, Pt100 and Pt1000.

To avoid contamination and errors caused by using dissimilar metals, only platinum is used in the construction of our PRTDs.

The sizes in this guide are the standard range; other sizes are made to order.

Enquiries

For technical information, product details and special applications, please contact us.



Visit t-d-i.co.uk

Scan the code, or type the address. You will find technical data, an RTD tolerance calculator, technical articles on IEC 60751, and the full product guide to download.

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