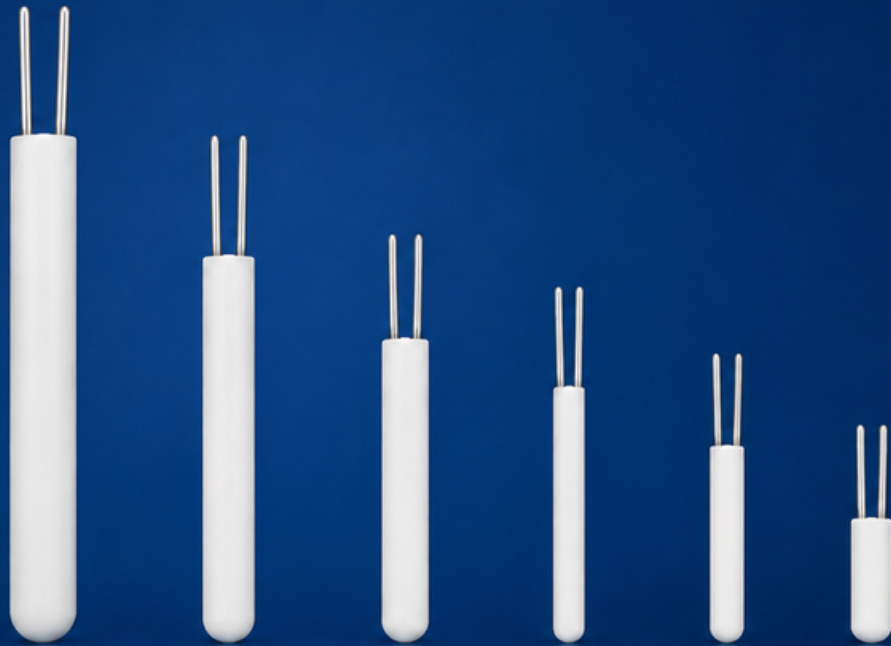




Product Range

Thermal Developments International Limited

HAND MADE PLATINUM RESISTANCE TEMPERATURE DETECTORS



Complete detector range

Hand made platinum resistance temperature detectors

TDI produces a wide range of detectors using wire that conforms to IEC 60751. Drawings are shown to a common scale; all dimensions are 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 to standard sizes — other types are available on request.

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

About TDI

What we make

TDI manufactures coil-wound platinum resistance detectors for sensor manufacturers, who build them into complete resistance thermometers. TDI supplies detector elements rather than finished thermometer assemblies.

Each detector uses a partially supported, wire-wound platinum coil in a ceramic housing. The bonding material restrains the coil without gripping it, allowing the wire to expand freely and helping preserve long-term stability.

Types available

All TDI detectors are ceramic-housed, wire-wound platinum resistance types, commonly described as PRTDs or RTDs. Standard options include Pt25, Pt100 and Pt1000, with nominal resistances from 1 Ω to 1000 Ω . TDI detectors meet the requirements of IEC 60751.

TDI's partially supported construction balances ruggedness with long-term stability, making it well suited to demanding industrial temperature measurement.

Resistance values

The standard range is centred on Pt100 (100 Ω at 0 °C), with custom values from 1 Ω to 1000 Ω , including Pt25 and Pt1000.

Quality

Quality control is supported by Isothermal Technology. Reference standards are calibrated in Isotech's UKAS-accredited laboratory in accordance with ISO/IEC 17025.



TDI at a glance

Established in 1983 and based in Southport, England.

Every detector is hand made.

More than six million detectors produced.

Supplied to sensor manufacturers worldwide.

Wire conforms to IEC 60751.

Tolerances to 1/10 Class B are routinely supplied.

Nominal resistance: 1 Ω to 1000 Ω , including Pt25, Pt100 and Pt1000.

Platinum-only construction helps prevent contamination from dissimilar metals.

Standard sizes are shown; others are made to order.

Enquiries

For product selection, technical guidance or special applications, contact our team or visit t-d-i.co.uk.



Visit t-d-i.co.uk

Scan the QR code for technical data, an RTD tolerance calculator, IEC 60751 articles and the downloadable product guide.

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