

Precision Thermometry Bridges

Isotech have a range of innovative precision thermometers to match the calibration requirements of all labs, from most demanding of National Metrology Institutes through to the needs of those calibrating industrial sensors.

Precision Thermometry Bridges

The microK instruments and the matching microK channel expander can be used with the best of Standard Platinum Resistance Thermometers, Thermistors and Thermocouples with uncertainties of better than 0.0001°C.

The microK family has unrivalled convenience and flexibility with performance that was previously only attainable with the best of the AC Resistance Bridges.

Precision Thermometers

This range includes two high accuracy bench top thermometers. The TTI-22 offer performance to 1mK at a ground breaking new price. The milliK can be used with SPRTs, PRTs, Thermistors, Thermocouples and Current Transmitters.



Selection Guide

Model	SPRTs	PRTs	Thermistors	Thermocouples	Accuracy at 0°C	Application	Features
Precision Thermometry Bridges							
microK 70	■	■	■	■	0.017ppm	Primary	Three Input Channels Touch Screen Adjustable Current Source
microK 125	■	■	■	■	0.03ppm	Primary	Keep Warm Currents Touch Screen
microK 250	■	■	■	■	0.06ppm	Secondary	
microK 500	■	■	■	■	0.125ppm	Secondary	
Precision Thermometers							
milliK	■	■	■	■	0.003°C	Secondary	Current Input
TTI-22	■	■			0.001°C	Secondary	Sets new Standard for Price to Performance
Scanners							
microKanner							Add up to 90 Channels to microK family Plug and Play Operation
Model 954							8 Channel PRT Switch for TTI-22 and TTI-7 PLUS
Model 958							8 Channel Thermocouple Switch for TTI-22 and TTI-7 PLUS

Resistors

To enable the smallest of measurements Standard Resistors are used, and in the Primary Lab these resistors require to be kept at a precise and constant temperature. Isotech can supply and calibrate Standard Resistors to uncertainties less than 0.08ppm.

Resistor Selection Guide			
Model	SRA & SRB	456	455
			
Values	SRA: 1, 10, 25 and 100 Ohm 400 Ohm to special order SRB: 1000 and 10,000 Ohms	10, 25, 100, 1000, 10,000 Ohm	Standard Resistor Maintenance Bath
Application	Primary and Secondary Lab microK	Affordable Resistors with inbuilt temperature control	Precisely Maintains SRA Primary Resistors at Fixed Temperature

RBC: Resistance Bridge Calibrator

The RBC is designed for quick and simple, in-house calibrations of AC and DC thermometry bridges, with an accuracy of better than 0.1 ppm at 100 Ω. The calibrators are supported by software for analysis of the results.



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