

**5840E<sub>2</sub>**

**PRECISION ELECTRONIC  
THERMOMETER**



**A HIGH ACCURACY VERSATILE  
AC THERMOMETER BRIDGE**

The 5840E<sub>2</sub> AC Thermometer Bridge represents the first in a new generation of instruments from Tinsley. With a much improved specification from the model 5840E that it now replaces, almost every feature of the original 5840E has been improved. AC excitation is used to eliminate the influence of any thermal emfs generated in either the probe or its associated cable. Modern styling and latest technology have produced an instrument that is both simple to operate and flexible enough to satisfy a diverse range of applications. As well as the flexible menu options that are available via "soft keys" and the graphics display, dedicated keys are provided for fast selection of commonly used functions.

Tinsley also offer a range of accessories to complement the 5840E<sub>2</sub> that include multiplex switches, reference Standard Resistors and Platinum Resistance Thermometers.

**KEY FEATURES**

Accuracy  $\pm 0.5\text{mK}$  at  $0^\circ\text{C}$

Resolution 1ppm, 0.1mK

Measures PRT's

Expandable to 60 Channels

Display ratio, ohms,  $^\circ\text{C}$ ,  $^\circ\text{F}$  or K

Large multifunction display




Programmable analogue output

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**tinsley**  
HEIGHT OF PRECISION

SPECIFICATION	
Accuracy (ppm)	±2ppm of reading or 2 digits
Accuracy (temperature)	±0.5mK at 0°C, ±2.5mK full range
Resolution	0.1mK
Range (ratio)	0:1 to 4.999 999:1
Range (ohms)	0 to 5kOhms
Range (temperature)	-260 to +962°C
Internal ref standards	25 Ohm & 100 Ohm
Excitation current (mA)	0.1, 0.2, 0.5, 1, 2, 5, 10 and $\times\sqrt{2}$
Excitation frequency	25 or 30Hz (50 or 60Hz supply)
Refresh rate	10, 5, 1, 0.1, & 0.01Hz
Analogue outputs	2
Communications	USB or IEEE.488 option
Mains supply voltage	90Vac to 264Vac
Mains frequency	47 to 63Hz
Operating temperature	+15 to +25°C
Operating R/H	<80% non-condensing
Dimensions	15cm x 45.5cm x 45cm
Nett weight	9kg

ACCESSORIES	
<b>5685</b>	High Stability AC/DC Standard Resistor
	
<b>5840</b>	Multiplex Switch
	
<b>5187SA</b>	Precision Platinum Reference Thermometer
	



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