

# 2090 Programmable Resistance Box



- 0.1  $\Omega$  to 99.9999k $\Omega$
- 0.1% Accuracy
- 0.01% Accuracy (Option)
- RS232 Interface
- 1 Watt Power Rating
- Front Panel Display & Controls
- Virtual Front Panel Software for PC

Connect the 2090 to the serial comm. port of a P.C. and automate almost any task performed by a standard resistance box saving time and reducing errors. Commonly used values can be stored by the click of a mouse using the optional Virtual Front Panel software.

The 2090 is ideal for simulation of any kind of RTD (Resistance Thermometers) or Resistive Sensors / Transducers in ATE or test systems. Controlling the 2090 is achieved using simple high level commands which can be sent to the unit from any program or programming language. The 2090 uses passive resistors and exactly mimics the performance of a conventional resistance box. Front panel controls and display allow easy local operation, which is essential for ad hoc testing and troubleshooting.

## Virtual Front Panel Software (Optional)

The Virtual Front Panel Software for Windows® unlocks the potential of the 2090 to provide advanced functionality not possible with manual resistance boxes.

Commonly used values can be stored in memory and selected as required or in a set sequence. Either manual selection or automatic step is available, providing simple ATE functionality. It is also possible to instantly set the output between zero and the last resistance value set. The relative function allows an offset to be applied.



## Specifications

<b>Resistance Range</b>	0.1 $\Omega$ to 99.9999k $\Omega$
<b>Accuracy</b>	0.1 $\Omega$ : 5% $\pm$ 35m $\Omega$ 1 $\Omega$ : 1% $\pm$ 35m $\Omega$ 10 $\Omega$ : 0.5% 100 $\Omega$ : 0.1% 1k $\Omega$ : 0.1% 10K $\Omega$ : 0.1%

<b>Residual Resistance</b>	25m $\Omega$ per decade
<b>T/C</b>	Less than 50ppm/ $^{\circ}$ C
<b>Power Rating</b>	1 Watt per decade
<b>Maximum Current</b>	1 Amp

**Power Supply** 230V AC 50 / 60 Hz

### Virtual Front Panel Software (Option)

- Installation Requirements :
- Microsoft Windows 95 / 98 / 2000 / NT4 or higher
  - Minimum RAM : 32MB
  - 10MB Hard Drive Space

<b>Maximum Voltage</b>	100V
<b>Operation Time</b>	50ms
<b>Operating Life</b>	>30 Million operations
<b>Interface Type</b>	RS232

**Dimensions** 180 x 255 x 65mm  
**Weight** 2kg

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### Ordering Information

Model 2090 Programmable Resistance Box	2090
UKAS Certificate	2090UKAS
Standard Certificate	2090STD
Virtual Front Panel Software	2090VFP

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