CROPICO 005/6/8



High Accuracy Resistance Decade Boxes 5, 6 & 8 Decades

CE

Special Models for Pt 100 Simulation

A versatile range of resistance boxes available in 5, 6 & 8 decades. High Accuracy and wide range 0.001 ohm to 11 Megohms are combined in a compact lightweight case. The switches have gold plated contacts to ensure a low contact resistance and negligible thermal emf. Some models are particularly suited to Pt100 simulation with resolution as low as 0.001 ohm ($\approx 0.0025^{\circ}$ C).

Model	N ⁰ Decades	Total Resistance	Resolution Ω	Resolution °C When simulating Pt100	Residual Resistance
005-B	5	$1,112.10\Omega$	0.01	0.025	1Ω
006-A	6	$1,112.11\Omega$	0.001	0.0025	1Ω
006-B	6	$11,112.10\Omega$	0.01	0.025	1Ω
006-C	6	$111,111\Omega$	0.1	N/A	70 mΩ
008-A	8	$111,112.11\Omega$	0.001	0.0025	1Ω
008-B	8	$1,111,112.1\Omega$	0.01	0.025	1Ω
008-C	8	11,111,111Ω	0.1	N/A	80 mΩ

008-C	008-B	008-A	006-C	006-B	006-A	005-B	Decade	Accuracy	Current Max
-	-	\checkmark	-	-	\checkmark	-	10 x 0.001 Ω	±2%	1.4A
-	\checkmark	\checkmark	-	\checkmark	\checkmark	\checkmark	10 x 0.01 Ω	±1%	1.4A
\checkmark	10 x 0.1 Ω	$\pm 0.5\%$	1.4A						
\checkmark	10 x 1 Ω	±0.1%	300 mA						
\checkmark	10 x 10 Ω	±0.01%	100 mA						
\checkmark	10 x 100 Ω	±0.01%	30 mA						
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	-	-	10 x 1K Ω	±0.01%	18 mA
\checkmark	\checkmark	\checkmark	\checkmark	-	-	-	10 x 10K Ω	±0.01%	5 mA
\checkmark	\checkmark	-	-	-	-	-	10 x 100K Ω	±0.01%	1.8 mA
\checkmark	-	-	-	-	-	-	10 x 1M Ω	±0.01%	0.5 mA

SWITCHES Contact material gold plated brass Contact Resistance $<5 \text{ m} \Omega$ Insulation Resistance (all paths $\geq 10^{12} \Omega$) Proof Voltage 1 kV **RESISTANCE COILS Temperature Co-efficient** \pm 3ppm/+20°C to +85°C ±5ppm maximum over -55°C to +125°C 0.1, 0.01 and 0.001 dials 10ppm/°C **Full Load Stability** ±35ppm/10,000 hours ±50ppm/26,000 hours **No Load Stability** ±25ppm/10,000 hours ±35ppm/26,000 hours over full temperature range; -55°C to 125°C

Power Rating 0.33 watt (+85°C) 0.25 watt (+110°C) **Maximum Continuous Working Voltage** Up to 250V DC Noise Essentially non-measurable $<1.5\mu V/\mu^{\circ}C$ max **Thermal EMF** $<0.4\mu V/^{\circ}C$ typical **Encapsulation** Moulded Epoxy Leads 22 SWG tinned copper Windings Exclusive 'air cushion' technique provides virtually stressless elements for improved performance. Non inductively wound. Direction of winding reversed at half turns point.



Size 350 x 100 x 80 mm Weight: <1 kg NAMAS Certification Optional

With

Certificate of

Conformity

In-House

Test

Figures Optional