

Portable 9 Decade High Resistance Box Model 4720 Series

- Designed for checking and calibration of insulation testers
- Measuring Range 1kohm to 1Tohm
- Resolution 1kohm
- Best accuracy 0.1% (dependent on range)
- Maximum 5000V (dependent on range)
- Maximum dissipation 3.5W (dependent on range)
- up to 9 decades
- Rugged construction
- Easily portable



Designed for the checking and calibration of insulation testers at voltages of up to 5000V DC, the Tinsley Model 4720 high resistance decade boxes provides up to 9 decades of resolution.

The total range covered is from 1 k Ω to 1,111,111,110k Ω using specially selected resistors and high-quality switches mounted on an easy to read panel.

These decade resistance boxes are housed in strong polymer portable cases with lids and carrying handles to provide an ideal solution to on-site and laboratory calibration of high resistance insulation testers.

The instruments can be supplied complete with a calibration certificates provided by our own in-house calibration laboratory.

Models available

| | |
|--------|--|
| 4720 | 9 Decade Box 1 K Ω to 611 G Ω |
| 4720/1 | 3 Decade Box 1 G Ω to 611 G Ω |
| 4720/2 | 6 Decade Box 1 K Ω TO 1111 M Ω |
| 4720/3 | 6 Decade Box 1 M Ω TO 611 G Ω |
| 4720/4 | 9 Decade Box 1 K Ω TO 1 T Ω |

| | 4720 Decade | Value | Accuracy | Max. Power | Max. V/Step | Temp. Coeff |
|--------|-------------|---------------------|--------------|------------|-------------|------------------------|
| 4720/2 | 1 | 10 x 1k Ω | $\pm 0.1\%$ | 1Watt | 10 | 15ppm/ $^{\circ}$ C |
| | 2 | 10 x 10k Ω | $\pm 0.1\%$ | 1Watt | 50 | 15ppm/ $^{\circ}$ C |
| | 3 | 10 x 100k Ω | $\pm 0.1\%$ | 1Watt | 150 | 15ppm/ $^{\circ}$ C |
| 4720/3 | 4 | 10 x 1M Ω | $\pm 0.1\%$ | 1Watt | 300 | 25ppm/ $^{\circ}$ C |
| | 5 | 10 x 10M Ω | $\pm 0.15\%$ | 1Watt | 500 | 50ppm/ $^{\circ}$ C |
| | 6 | 10 x 100M Ω | $\pm 1.0\%$ | 2.3Watt | 1,000 | 100ppm/ $^{\circ}$ C |
| | 7 | 10 x 1G Ω | $\pm 1.0\%$ | 3.5Watt | 5,000 | 100ppm/ $^{\circ}$ C |
| | 8 | 10 x 10G Ω | $\pm 2.0\%$ | 3.5Watt | 5,000 | 100ppm/ $^{\circ}$ C |
| | 9 | 5 x 100G Ω * | $\pm 4.0\%$ | 1.3Watt | 5,000 | 2,000ppm/ $^{\circ}$ C |

Note:- Decades 6, 7, 8 and 9 limited to a maximum of 5000 volts.

Note * this decade is extended to 10 x 100G Ω for the type 4720/4 only

Weight 8.8kg

Dimensions 47cm x 37cm x 18cm

Optional Part number TINS-4720-21LEADS1

Pair high voltage connecting leads fitted with suitable plugs at one end for connection to the Decade Box

Optional UKAS certification can be supplied



Tinsley Instrumentation Ltd
 1 Warner Drive
 Springwood Industrial Estate
 Braintree, Essex
 CM7 2YW

Tel: 01376 335271
 E-mail: info@tinsley.co.uk

www.tinsley.co.uk