

Milliohmmeter 4 Terminal Test Standards

The Milliohmmeter Test Standards are designed for the simple and easy calibration of low resistance ohmmeters and Kelvin/Thomson bridges. The true four terminal resistance values are switch selected and provision is made for + and - full scale values. A four terminal zero value may also be selected, thus making zero and full scale calibration of instruments simplicity itself. Two models are available, the MTS1A which has 11 values from 1mΩ to 100 kΩ and the MTS2 which has 10 values from 400 μΩ to 400 kΩ, making it ideally suited for the calibration of digital instruments with a long scale length of 4000 or 6000 count.



The Test Standards are housed in a rugged bench portable aluminium case with tilt handle. The internal standards are manufactured from premium quality resistance wire with low temperature and load coefficient. For the selection of the standards, a special switch of our own construction is used ensuring a long and trouble free operating life. The units are supplied complete with a calibration certificate.

- True 4 Terminal Standards
- Switch Selectable Values
- Polarity Reversal Switch
- Four Terminal Zero
- High Current Capability
- Two Models Available

MTS1/A

Resistance Value (Ω)	Uncertainty of adjustment at 20°C	Dissipated Max Watts	Current Max A	Typical Temp. Coeff. 15 to 20°C
100 kΩ	±0.01%	0.1	1 mA	<10 ppm
10 kΩ	±0.01%	0.1	3 mA	<10 ppm
1 kΩ	±0.01%	0.6	25 mA	<10 ppm
100 Ω	±0.01%	0.6	75 mA	<10 ppm
19 Ω	±0.01%	0.43	150 mA	<10 ppm
10 Ω	±0.01%	0.45	212 mA	<10 ppm
1.9 Ω	±0.01%	0.475	500 mA	<10 ppm
1 Ω	±0.01%	0.56	750 mA	<10 ppm
100 mΩ	±0.01%	0.625	2.5 A	<10 ppm
10 mΩ	±0.05%	0.25	5 A	<10 ppm
1 mΩ	±0.05%	0.1	10 A	<10 ppm

MTS2

Resistance Value (Ω)	Uncertainty of adjustment at 20°C	Dissipated Max Watts	Current Max A	Typical Temp. Coeff. 15 to 20°C
400 kΩ	±0.01%	0.1	0.45 mA	<10 ppm
40 kΩ	±0.01%	0.1	1.5 mA	<10 ppm
4 kΩ	±0.01%	0.1	5 mA	<10 ppm
400 Ω	±0.01%	0.1	15 mA	<10 ppm
40 Ω	±0.01%	0.1	50 mA	<10 ppm
4 Ω	±0.01%	0.1	150 mA	<10 ppm
400 mΩ	±0.01%	0.1	500 mA	<10 ppm
40 mΩ	±0.01%	0.1	1.5 A	<10 ppm
4 mΩ	±0.1%	0.4	10 A	<10 ppm
400 μΩ	±0.1%	0.04	10 A	<10 ppm

<p>Terminals 4 mm binding posts will accept spade tags and 4 mm banana plugs. Low thermal emf types are used for the potential connections.</p>	<p>Working Temperature 5 ... 40°C</p> <p>Storage Temperature 5 ... +50°C</p> <p>Switches Special combination switch with low thermal gold/silver contacts for the potential selection and low resistance contacts for the current selection.</p>	<p>Dimensions 215 x 88 x 250 mm (W D H) 1/2 19" Rack 2U High 467 x 374 x 216 mm packed in card carton</p> <p>Weight 2.8 kg approx. (3.5 kg packed in card carton).</p>
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- MTS1A: 1 mΩ to 100kΩ & MTS2: 400 μΩ to 400 kΩ
- Supplied Complete with Calibration Certificate

Resistance Decades & Standards