

MTS

EASY TO USE MILLI OHMMETER 4 TERMINAL TEST STANDARD WITH + AND - FULL SCALE VALUES

This milli ohmmeter's test standards are designed for the simple and easy calibration of low resistance ohmmeters and Kelvin / Thomson bridges. The four terminal resistance values are switch selected and provision is made + 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 1 milli ohm to 100 kilo ohm and the MTS2 has 10 values from 400 milli ohm to 400 kilo ohm 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 coefficients. The units are supplied complete with a calibration certificate.

KEY FEATURE	MTS
True 4 terminal standards	■
Switch selectable values	■
Polarity reversal switch	■
Four terminal zero	■
Two models available: MTS1A: 1 milli ohm to 100 kilo ohm and MTS2: 400 milli ohm to 400 kilo ohm	■
Supplied complete with calibration certificate	■



MTS 1A SPECIFICATIONS

Resistance Value	Uncertainty of Adjustment @ 20°C	Watts Max W	Current Max A	Typical Temp Coefficient
100kΩ	±0.01%	0.1	1mA	<10ppm
10kΩ	±0.01%	0.1	3mA	<10ppm
1kΩ	±0.01%	0.6	25mA	<10ppm
100Ω	±0.01%	0.6	75mA	<10ppm
19Ω	±0.01%	0.43	150mA	<10ppm
10Ω	±0.01%	0.45	212mA	<10ppm
1.9Ω	±0.01%	0.475	500mA	<10ppm
1Ω	±0.01%	0.56	750mA	<10ppm
100mΩ	±0.01%	0.525	2.5A	<10ppm
10mΩ	±0.05%	0.25	5A	<10ppm
1mΩ	±0.05%	0.1	10A	<10ppm

MTS 2 SPECIFICATIONS

Resistance Value	Uncertainty of Adjustment @ 20°C	Watts Max W	Current Max A	Typical Temp Coefficient
400kΩ	±0.01%	0.1	0.45mA	<10ppm
40kΩ	±0.01%	0.1	1.5mA	<10ppm
4kΩ	±0.01%	0.1	5mA	<10ppm
400Ω	±0.01%	0.1	15mA	<10ppm
40Ω	±0.01%	0.1	50mA	<10ppm
4Ω	±0.01%	0.1	150mA	<10ppm
400mΩ	±0.01%	0.1	500mA	<10ppm
40mΩ	±0.01%	0.1	1.5A	<10ppm
4mΩ	±0.1%	0.4	10A	<10ppm
400μΩ	±0.1%	0.04	10A	<10ppm

Working Temperature

+5 to +40°C

Storage Temperature

+5 to +50°C

Dimensions

215mm x 88mm x 250mm (W H D) approx

Mass

2.8kg approx

Terminal

4mm binding posts will accept spade tags and 4mm banana plugs. Low thermal E.M.F. types are used for the potential terminals

Switches

Combination switch with low thermal contacts for the potential selection and low resistance contacts for the current selection