MTS

Easy to use milliohmmeter 4 terminal test standards with + and - full scale values

The MTS range of milliohmmeter 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.

Three models are available, the MTS1A which has 11 values from 1mΩ to 100kΩ and the MTS2 has 10 values from 400μΩ to 400kΩ, making it ideally suited for the calibration of digital instruments with a long scale length of 4,000 or 6,000 count. The MTS3 is designed for easy calibration for units such as the Cropico DO7010, where a pulsed current is produced. 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 Features

- True 4 terminal standards
- Switch selectable values
- Polarity reversal switch
- Four terminal zero
- Three models available:
  MTS1A: 1mΩ to 100kΩ
  MTS2: 400μΩ to 400kΩ
  MTS3: 5mΩ to 5Ω
- Supplied complete with calibration certificate

Ideal For

- Service/calibration departments

www.seaward.co.uk/MTS
For USA, Canada and Mexico enquiries Tel: +1 (813) 886 - 2775
For all other enquiries Tel: +44 (0) 191 587 8741
Email: sales@seaward.co.uk

Technical Specifications

MTS1A				
Resistance Value	**Uncertainty of Adjustment at 20°C**	**Power Max (W)**	**Current Max (A)**	**Typical Temperature Coefficent**
100kΩ	±0.01%	0.1	1mA	<10ppm/°C
10kΩ	±0.01%	0.1	3mA	<10ppm/°C
1kΩ	±0.01%	0.6	25mA	<10ppm/°C
100Ω	±0.01%	0.6	75mA	<10ppm/°C
19Ω	±0.01%	0.43	150mA	<10ppm/°C
10Ω	±0.01%	0.45	212mA	<10ppm/°C
1.9Ω	±0.01%	0.475	500mA	<10ppm/°C
1Ω	±0.01%	0.56	750mA	<10ppm/°C
100mΩ	±0.01%	0.625	2.5A	<10ppm/°C
10mΩ	±0.05%	0.25	5A	<10ppm/°C
1mΩ	±0.05%	0.1	10A	<10ppm/°C

MTS2				
Resistance Value	**Uncertainty of Adjustment at 20°C**	**Power Max (W)**	**Current Max (A)**	**Typical Temperature Coefficent**
400kΩ	±0.01%	0.1	0.5mA	<10ppm/°C
40kΩ	±0.01%	0.1	1.5mA	<10ppm/°C
4kΩ	±0.01%	0.1	5mA	<10ppm/°C
400Ω	±0.01%	0.1	15mA	<10ppm/°C
40Ω	±0.01%	0.1	50mA	<10ppm/°C
4Ω	±0.01%	0.1	150mA	<10ppm/°C
400mΩ	±0.01%	0.1	500mA	<10ppm/°C
40mΩ	±0.01%	0.1	1.5A	<10ppm/°C
4mΩ	±0.1%	0.4	10A	<10ppm/°C
400µΩ	±0.1%	0.04	10A	<10ppm/°C

MTS3			
Resistance Value	**Uncertainty of Adjustment at 20°C**	**Current max 2 seconds (A)**	**Typical Temperature Coefficent**
5Ω	±0.05%	1A	<10ppm
500mΩ	±0.05%	10A	<10ppm
50mΩ	±0.05%	10A	<10ppm
5mΩ	±0.1%	10A	<10ppm

The MTS3 is not intended to be used for measurements where a continuous current is used

Terminal
4mm binding posts will accept spade tags and 4mm banana plugs. Low thermal EMF 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

Working Temperature
+5 to +40°C

Storage Temperature
+5 to +50°C

General Specifications

Dimensions
215 x 88 x 250mm / 8.5 x 3.5 x 9.8” (w x h x d) approx

Mass
2.8kg/6lbs approx

Part Numbers

MTS1A	930240
MTS2	930241
MTS3	930242

Services
1 year warranty (subject to product registration with Seaward. Visit **www.seaward.co.uk/register-product**)

Service and calibration by Calibrationhouse.
Go to **www.calibrationhouse.com** for more information.

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