


**TEMO TECHNICAL DATA SHEET**

<b>TEST SET MULTIRANGE No 1 MK 4 (HIGH SENSITIVITY)</b>	Manufacturer:	Avometer
	Model Number:	Model 8 Mk 6/7
	NATO Stock Number:	6625 99 7285965

	<p><u>General Description</u></p> <p>A lightweight portable multirange instrument of high sensitivity essentially for use on electronic equipment. It is self shielded against external magnetic fields, flash tested to 7kV, and overload protected by a high speed electro-mechanical cut-out with a fuse on the two lower resistance ranges. Contains an internal rectifier and transformer. Shunts and multipliers are brought into operation by two range switches. It is capable of use over the audio frequency range -10 to +55 decibels.</p>
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**The Magazine Safety Committee has now approved the AVO Mk 4 Test Set for the use in magazine environments subject to the following caveats:**

- (a) **Battery compartments to be sealed with tape.**
- (b) **Exchange of batteries within magazines prohibited.**
- (c) **Use in an environment with exposed Electro Explosive Devices (EEDs) is prohibited.**
- (d) **Use only by authorised personnel and in accordance with the BR for the weapon or weapon system being tested and the Test Set operating instructions.**

**PHYSICAL AND ENVIRONMENTAL DATA**

Height (Including transit case if supplied)	:	192mm
Width (Including transit case if supplied)	:	165mm
Depth (Including transit case if supplied)	:	115mm
Weight (Including transit case if supplied)	:	2.2kg
Temperature (Operating)	:	
Temperature (Storage & Transport)	:	
Humidity (Operating)	:	
Humidity (Storage & Transport)	:	
Altitude (Operating)	:	
Altitude (Storage & Transport)	:	

**SPECIFICATIONS AND CHARACTERISTICS:****ELECTRONIC DATA:**

Voltage ranges:	dc 100mV, 3V, 10V, 30V, 100V, 300V, 600V, 1000V.
	ac 3V, 10V, 30V, 100V, 300V, 600V, 1000V.
Resistance ranges:	0 – 2k, 200k, 20M.

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Current ranges:	dc 50 $\mu$ A, 300 $\mu$ A, 1mA, 10mA, 100mA, 1A, 10A. ac 10mA, 100mA, 1A, 10A.
Sensitivity:	dc 20k/V on all ranges. ac 100R/V on 3 volt range. 1k/V on 10 volt range. 2k/V on 30 volt range upwards.
Accuracy at 20°C:	dc $\pm 1\%$ of full scale deflection. ac (50Hz) $\pm 2\%$ of full scale deflection. Resistance $\pm 5\%$ of centre scale reading.
Decibels:	-10 to +55 using ac volts scale.
Frequency response:	Variation of 50Hz on voltage ranges up to 300V, not greater than $\pm 3\%$ between 15Hz and 15kHz.
Voltage drop:	
AVO model 8 Mk 6:	dc at terminals, from 100mV at 50 $\mu$ A to 750mV at 10A. ac less than 450mV at 10A.
AVO model 8 Mk 7:	dc at terminals, from 100mV at 50 $\mu$ A to 710mV at 10A ac. less than 390mV at 10A.
Temperature range:	Operation -50C to +156C. Store -40C to +50C.
Temperature variation:	0.15% per °C.

**ELECTRICAL DATA:**

Battery 1.5 volts	6135 99 9101101
Battery 15 volts	6135 99 7911875

**OPTIONS:**