

**VOLTAGE DETECTOR, Mk. 4 (AVO)**



<i>Ref. No.</i>	...	...	...	...	...	5G/3365
<i>Dimensions</i>	...	...	...	$7\frac{1}{2} \times 5\frac{3}{4} \times 4$ in.	(approx.)	
<i>Weight</i>	...	...	...	...	...	5 lb. (approx.)
<i>Associated publication</i>	...					A.P.4343S, Vol. 1, Sect. 24

**BRIEF DESCRIPTION**

The Mk. 4 voltage detector is a small portable instrument for use on armament electrical circuits to determine whether any voltage is present before electrically initiated explosive stores are connected to them. The instrument is designed to detect voltages within the range of 50mV to 1.25V on a.c. and d.c. of either polarity. It has a sensitivity of approximately 20,000 ohms per volt at 1V and full scale deflection is obtained with an applied 1.25V d.c. or a.c. up to 150 Kc/s. The circuit design provides protection for the movement against overloads up to 250V, a.c. or d.c. by restricting the resultant current to a maximum of ten times that of the normal full scale deflection current (25  $\mu$ A).

A built-in self-test facility enables d.c. voltages of both polarities to be applied to the instrument, through two push-switches and an external jumper lead, to prove the serviceability of the detector before use. A plastic-impregnated fabric case and carrying strap provided with the detector enables tests to be made with the instrument slung from the shoulders of the operator.

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