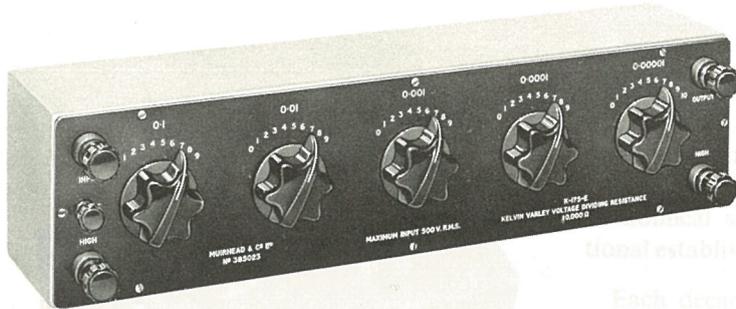


K-175 KELVIN VARLEY RESISTIVE VOLTAGE DIVIDERS



- PRECISE VOLTAGE RATIOS TO AN ACCURACY OF 0.01%
- FIVE DIGIT RESOLUTION
- CONSTANT INPUT IMPEDANCE
- SUITABLE FOR AC & DC MEASUREMENTS

The Muirhead Voltage Divider using the Kelvin Varley principle, provides an accurate voltage division at low cost and finds wide application in electrical measurements.

SPECIFICATION

This specification represents Muirhead rejection limits

	K-175-E	K-175-E/1
NUMBER OF DECADES	5	5
INPUT RESISTANCE	10 kilohms $\pm 0.05\%$	100 kilohms $\pm 0.05\%$
ACCURACY OF INDICATED RATIO*		
Dials		
0.1 and 0.01	$\pm 0.01\%$ 0 to 80c/s	$\pm 0.01\%$ 0 to 30c/s
0.001 and 0.0001	$\pm 0.05\%$ "	$\pm 0.05\%$ "
0.00001	$\pm 0.2\%$ "	$\pm 0.2\%$ "
0.1 and 0.01	$\pm 0.02\%$ 80c/s to 10kc/s	$\pm 0.02\%$ 30c/s to 1.0kc/s
0.001 and 0.0001	$\pm 0.1\%$ "	$\pm 0.1\%$ "
0.00001	$\pm 3\%$ "	$\pm 3\%$ "
All Dials	$\pm (0.1 + \frac{0.0001}{\text{setting}}) \%$ 10kc/s to 20kc/s	$\pm (0.1 + \frac{0.0001}{\text{setting}}) \%$ 1.0kc/s to 2.0kc/s
MAXIMUM WATTAGE	6.25 Watts	6.25 Watts
MAXIMUM VOLTAGE	250 Volts R. M. S.	750 Volts R. M. S.
VARIATION OF ACCURACY		
no load to full load	less than 0.01%	less than 0.1%
DIMENSIONS		
Width	17-3/8in 4.4cm	17-3/8in 4.4cm
Height	5-1/8in 12.9cm	5-1/8in 12.9cm
Depth	4-1/8in 10.5cm	4-1/8in 10.5cm
WEIGHT	5lb 10oz 2.55kg	5lb 10oz 2.55kg
OUTPUT RESISTANCE		

With the input driven from a low impedance source the output resistance varies from zero at zero setting to a maximum of approximately 2700 ohms (K-175-E), 27000 ohms (K-175-E/1) round the 0.5 setting.

* There may be a residual at zero setting of all dials of up to 0.000003 depending upon the method of use, as a three or four terminal network.

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