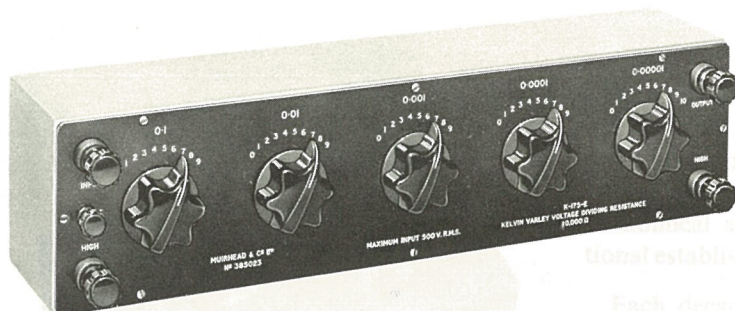


## K-175 KELVIN VARLEY RESISTIVE VOLTAGE DIVIDERS



- 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.