



## Fluke 752A Reference Divider

### Division Ratio

Division Ratio 10:1 $\pm 0.2$ ppm	Input: 0V to 100V
Division Ratio 100:1 $\pm 0.5$ ppm	Input: 0V to 1000V

### Specifications\*

Ratio Ranges	10:1 and 100:1
Ratio Uncertainty	Ratio accuracies that apply for a temperature variation of less than $\pm 1^\circ\text{C}$ from the self-calibration temperature (between $18^\circ\text{C}$ and $28^\circ\text{C}$ ) for up to 8 hours following self-calibration:  <b>Range 10:0</b> Input Voltage: 0 to 100V Output Uncertainty: 0.2 ppm Null Accuracy: $\pm 0.5 \mu\text{V}^*$  <b>Range 100:1</b> Input Voltage: 0 to 1000V Output Uncertainty: 0.5 ppm Null Accuracy: $\pm 1.0 \mu\text{V}^*$
Temperature Coefficient	$\leq \pm 1$ ppm per $^\circ\text{C}$ over range of $18^\circ\text{C}$ to $28^\circ\text{C}$ (typically) $0.1$ ppm per $^\circ\text{C}$ from $15^\circ\text{C}$ to $30^\circ\text{C}$
Input Resistance	10:1 Ratio: $380 \text{ k}\Omega \pm 1\%$ 100:1 Ratio: Divider is $4 \text{ M}\Omega$ ; Driven Guard is $4 \text{ M}\Omega$ ; total is $2 \text{ M}\Omega \pm 1\%$
Maximum Input Voltage	200V for the 10:1 ratio 1100V for the 100:1 ratio
Power Coefficient	$\leq 0.05$ ppm of output with 100V applied for 10:1 ratio and $\leq 0.3$ ppm of output with 1000V applied for 100:1 ratio (included in the ratio accuracy specifications)
Temperature	$0^\circ\text{C}$ to $50^\circ\text{C}$ , operating; $-40^\circ\text{C}$ to $75^\circ\text{C}$ non-operating
Relative Humidity	$\leq 75\%$ to $40^\circ\text{C}$ , $\leq 45\%$ to $50^\circ\text{C}$ , non-condensing, operating; $\leq 100\%$ $10$ - $50^\circ\text{C}$ , non-operating
Altitude	$\leq 3050\text{m}$ ( $10,000$ ft) operating; $\leq 12,220\text{m}$ ( $40,000$ ft) non-operating
Vibration	Per MIL-T-28800C, Type III, Class 5, Style E
Safety	IEC 348, 2nd edition, 1978; ANSI-C39.5, 1980, CSA

	556B, and UL 1244
<b>Size</b>	19.1 cm H x 22.1 cm W x 60.3 cm L (7.53 in H x 8.69 in W x 23.75 in L)
<b>Weight</b>	8.4 kg (18.5 lbs.)

\* Specifications apply for the lifetime of the instrument over the temperature range of 18°C to 28°C.

\* \* Null accuracy refers to the required accuracy of the null detector reading during self-calibration.

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