



2743

170 x 30 x 35 mm 0.2 kg
 (6-3/4 x 1-1/4 x 1-3/8" 0.4 lbs)



2744

110 x 491 x 145 mm 5.5 kg
 (4-3/8 x 19-3/8 x 5-3/4" 12.1 lbs)



2745

159 x 216 x 100 mm 1.7 kg
 (6-1/4 x 8-1/2 x 4" 3.7 lbs)



2749

104 dia. x 147 mm 1 kg
 (4-1/8 dia. x 5-3/4" 2.2 lbs)

SPECIFICATIONS OF 2727

Measuring Range: $\pm(11.11 \text{ mV to } 111.1\text{V})$ in 4 digits

Multiplier	Measuring Range	Min. Div.
x 1 mV	$\mp 100\mu\text{V to } \pm 111.1\text{mV}$	10 μV
x 10 mV	$\mp 1\text{mV to } \pm 1.111\text{V}$	100 μV
x 0.1 V	$\mp 10\text{mV to } \pm 11.11\text{V}$	1mV
x 1 V	$\mp 100\text{mV to } \pm 111.10\text{V}$	10mV

Decade Dial: at multiplier x 1 mV

Dial I . . . 10 mV x 10 steps, Dial II . . . 1 mV x 10 steps,
 Dial III . . . $-100\mu\text{V to } +1.1 \text{ mV}$ (10 $\mu\text{V/div.}$) . . . continuously variable.

Multiplier dial . . . x1mV, x10 mV, x0.1V, x1V.

Rated Accuracy:

Multiplier	Accuracy	
	23 \pm 2 $^{\circ}\text{C}$	5 to 35 $^{\circ}\text{C}$
x 1 mV	$\pm(0.05\% + 10\mu\text{V})$	$\pm(0.07\% + 20\mu\text{V})$
x 10 mV	$\pm(0.05\% + 100\mu\text{V})$	$\pm(0.07\% + 200\mu\text{V})$
x 0.1 V	$\pm(0.07\% + 1\text{mV})$	$\pm(0.1\% + 2\text{mV})$
x 1 V	$\pm(0.07\% + 10\text{mV})$	$\pm(0.1\% + 20\text{mV})$

Input Resistance:

Multiplier	Input Voltage Divider	Input Resistance	
		when unbalanced	when balanced
x 1 mV	Not provided	More than approx. 7.5k Ω	∞
x 10 mV	Not provided		∞
x 0.1 V	Provided	Approx. 1M Ω	1M Ω
x 1 V	Provided	1M Ω	1M Ω

Galvanometer: Electronic DC galvanometer (built-in), Sensitivity . . . G_0 More than 15 $\mu\text{V/div.}$, 380 $\mu\text{V/full scale}$, G_1 More than 150 $\mu\text{V/div.}$, 3.8mV/full scale, G_2 More than 1.5mV/div., 38mV/full scale.

Standard Cell: Unsaturated standard cell (built-in).

Thermocouple Reference Junction Compensation Circuit: Voltage setting range . . . +0.1mV to $-1.2\text{mV}/+3\text{mV}$ to -3.6mV , Voltage setting accuracy at 5 to 35 $^{\circ}\text{C}$ (41 to 95 $^{\circ}\text{F}$) . . . $\pm 20\mu\text{V}$ on 1.2mV range, $\pm 60\mu\text{V}$ on 3.6mV range.

Power Source: Four 1.5V batteries (JIS R20P, ANSI D, Mono 1.5V or equivalent) for measurement power source, single 1.5V battery (JIS R20P or equivalent) for reference junction compensator, single 9V battery (JIS 6F22, ANSI 6F22, Energieblock 9 V or equivalent) for galvanometer.

Optional Accessories: 2743 standard shut, 2792 standard resistor (Page 9).

OPTIONAL ACCESSORIES FOR DC POTENTIOMETERS (2722, 2723)

2743 STANDARD SHUNT (For 2722, 2723)

2743 is used mainly for the measurement of large current.

Rated voltage drop: 100 mV. **Accuracy:** $\pm 0.05\%$.

Code	274301	274302	274303	274304	274305	274306
Rated current	2A	5A	10A	20A	50A	100A

2744 VOLT RATIO BOX (For 2722)

2744 is a voltage divider to be used for accurate measurement of voltage from 1.6 to 1,500V.

Rated value: 3, 7.5, 15, 30, 75, 150, 300, 750, 1,500V.

Accuracy: $\pm 0.01\%$ (3 to 150V), $\pm 0.02\%$ (300 to 1,500V).

2745 SELECTOR SWITCH (For 2722 & 2723)

2745 is provided with 2 circuits and 6 contacts, and used for the measurement of unknown voltage of up to six channels. The contact points are made of silver, eliminating thermal emf.

2749 STANDARD CELL (For 2722 & 2723)

2749 is a Weston unsaturated type standard cell using CdSO₄ crystals. The certified accuracy is $\pm 0.005\%$ and emf is 1.0193V at 23 $^{\circ}\text{C}$.