



2422 Portable Calibrator



2422
257 x 182 x 40 mm 1.2 kg
(10-1/8 x 7-1/4 x 1-5/8" 2.7 lbs)

The 2422 is capable of generating DC V, DC mA and emf, and displays both generation and measurement values on its LCD display unit.

- SIMULTANEOUS DISPLAYS OF OUTPUT SUPPLY AND INPUT MEASUREMENT
- COMPACT AND LIGHTWEIGHT
- AUTO-STEPPING OUTPUT & OUTPUT DIVIDING FUNCTIONS
- DIRECT THERMOMETER CALIBRATION
- BUILT-IN Ni-Cd BATTERY/AC POWER OPERATION

AVAILABLE MODELS

Model	Description	
	AC Adapter	Corresponding TC emf
242211	120 V	ANSI
242212	220 to 240 V	ANSI
242221	220 to 240 V	DIN

SPECIFICATIONS

Setting Time: Approx. 1 s
Divided Output: Output = set value × n/m, m (no. of divisions) ≤ 15, n = 0, 1, 2 ... m
Set-Value Memory: 20 steps (10 steps × 2, excluding polarity signal)
Auto Step: n/m and memory channel automatic feed, step time ... 2, 5, 10, 20 s
Output Monitor: Load current monitor at 1, 10 and 30 V ranges (accuracy ±0.2 mA), load voltage monitor in 20 mA range (accuracy ±0.2 V)
Output Limiter: Activated under load of more than maximum output (manual return)
Output Setting: 4-digit UP/DOWN
Display: 4-1/2 digit LCD
RJC Sensor Measuring Range: -10 to +50°C, 14 to 122°F (accuracy in combination with 2422 ... ±0.5°C at 23±5°C, ±1°C at -10 to 50°C)
Dielectric Strength: 500 V DC for one minute between input and output terminal
Power Source: AC adapter/internal Ni-Cd batteries
Optional Accessories: RJC sensor (B9638CR), terminal block (B9638BM)
Accessories Supplied: AC adapter, output and measuring cables (1 pc. each), carrying case

	Range	Generating and Measuring ranges	Accuracy (23±5°C)*1	Resolution	Max. Output	Description	
Generation Ranges	30 V	0 to ±36.00 V	± (0.05% of rdg + 0.06% of range)	10 mV	Approx. 5 mA	—	
	10 V	0 to ±12.000 V	± (0.05% of rdg + 0.02% of range)	1 mV	Approx. 20 mA		
	1 V	0 to ±1200.0 mV	± (0.05% of rdg + 0.02% of range)	100 μV	Approx. 20 mA	Internal resistance approx. 5 Ω	
	100 mV	0 to ±120.00 mV	± (0.1% of rdg + 0.02% of range)	10 μV	—		
	TC	K	-200.0 to +1370.0°C, -328.0 to 2502°F	± (0.1% of rdg + 0.5°C), (0.1% of rdg + 2°F)*2	0.1°C, 1°F	—	Internal resistance approx. 5 Ω
		E	-200.0 to 700.0°C, -328.0 to 1292°F	± (0.1% of rdg + 0.5°C), ±(0.1% of rdg + 1.0°F)*2	0.1°C, 0.2°F		
		J	-200.0 to +1000.0°C, -328 to 1832°F				
		T	-200.0 to +400.0°C, -328 to 752°F				
		R	0 to +1600°C, 32 to 3216°F	± (0.1% of rdg + 1.5°C), ± (0.1% of rdg + 2.7°F)*2	1°C, 1°F		
		-40 to 0°C, -40 to 32°F	± (0.1% of rdg + 3°C), ± (0.1% of rdg + 5.4°F)				
	20 mA	0 to ±24.00 mA	± (0.1% of rdg + 0.1% of range)	10 μA	Approx. 12 V	—	
	Reference resistance	100 Ω	± 0.2%	—	—	—	
Measuring Ranges	30 V	± 36.00 V	± (0.1% of rdg + 2 digits)	10 mV	—	Input resistance approx. 1 MΩ	
	10 V	± 11.999 V		1 mV			
	1 V	± 1199.9 mV		100 μV			

*1 Voltage drop due to the load current through the attached lead is not included (lead resistance is about 0.08 Ω).

*2 Accuracy of TC range does not include the error of RJC.