



Yokogawa 2422 Portable Calibrator Instruction Manual

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YOKOGAWA

VOLTAGE/CURRENT STANDARDS 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 m AUTO-STEPPING OUTPUT & OUTPUT DIVIDING FUNCTIONS
- DIRECT THERMOMETER CALIBRATION
- BUILT-IN Ni-Cd BATTERY/AC POWER OPERATION

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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

SettingTime: Approx. 1s

Divided Output: Output = set value X n/m, m (no. of divisions) \$15, n=0,1,2..m

Set-Value Memory: 20 steps (10 steps X 2, excluding polarity signal) Auto Step: n/m and memory channel automatic feed, step time... 2,5, , 20s

Output Monitor: Load current monitor at 1, 10 and 30 V ranges (ac- aay? 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 10 V 1 V 100 mV		0 (0 =36.00 V O to±12.000 V 0 to ±1200.0 mV 0 to ±120.00 mV	± (0.05% of rdg + 0.06% of range) ± (0.05% of rdg + 0.02% of range) ± (0.05% of rdg + 0.02% of range) ± (0.1% of rdg + 0.02% of range)	10 mV 1 mV 100 μV 10 ILV	Approx. 5 mA Approx. 20 mA Approx. 20 mA	— Internal resistance approx. 5 Ω
	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 nA	Approx. 12 V	—
	Reference resistance		100 Ω	± 0.2%	—	—	—
	Measuring Ranges	30 V 10 V 1 V	± 36.00 V ± 11.999 V ± 1199.9 mV	± (0.1% of rdg + 2 digits)	10 mV 1 mV 100μV	—	Input resistance approx. 1 MΩ

*1 Voltage drop due to the load current through the attached lead is not included (lead resistance is about 0.089).

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



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