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Multifunction Process Calibrator

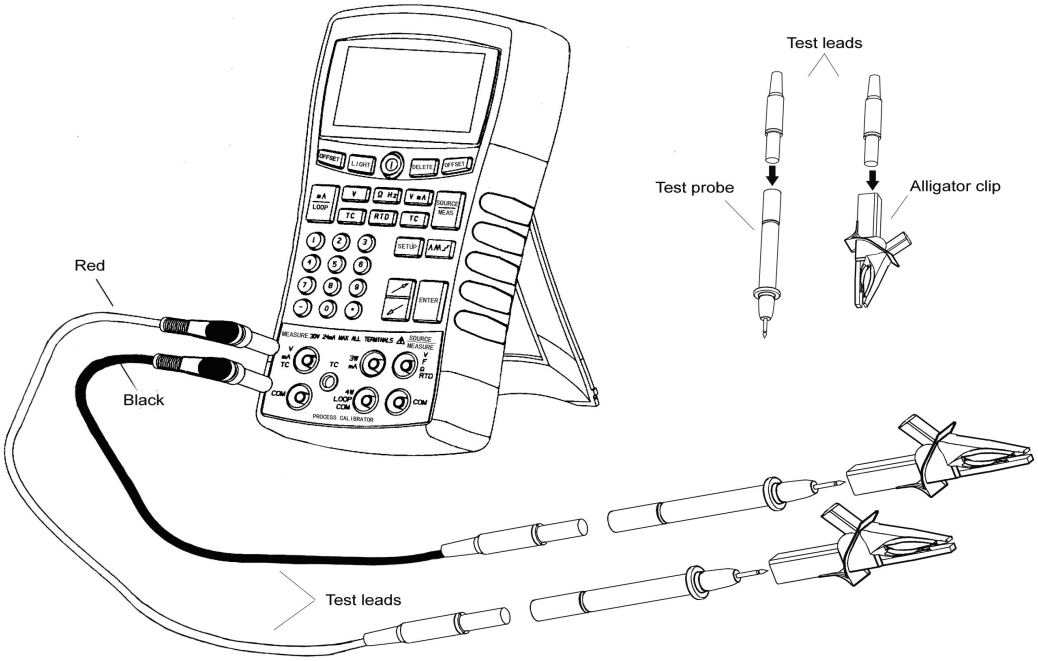
Data sheet

SUP-825-J

Add: No.600,No.21 Street, Hangzhou Economic&Technological Development Area, Zhejiang,China

Product overview:

The SG-200 series Process Calibrator is a hand-hold, with accuracy up to 0.02% and battery-powered instrument that measures and sources varieties of process parameters. It can be widely applied in industrial fields and laboratories.



Features:

- Two separate channels display.
  The upper display shows measure parameters ; the lower one shows measure or source parameters;
- Counting pulse function
- Calibration functions
- Auto ramping and auto stepping
- Manual and automatic cold junction compensating
- Clear function
- Temperature unit switching
- Auto flashing jacks
- Backlight LCD
- Battery gauge

Specifications:

General Specifications	Operating temperature	-10℃~55℃
	Storage temperature	-20℃~70℃
	Relative Humidity (％RH operating without condensation)	90%(10℃~30℃)
		75%(30℃~40℃)
		45%(40℃~50℃)
		35%(50℃~55℃)
		Uncontrolled <10℃
	EMC	EN55022, EN55024
	Vibration	Random, 2g, 5 to 500Hz
	Concussion	30g, 11ms, half sine bow wave
	Power requirement	4 AA Ni-MH, Ni-Cd batteries
	Size	215mm×109mm×44.5mm
	Weight	About 500g

DC Voltage	Range	Accuracy
Measurement	(0~100)mVDC(Upper display)	±0.02%
	(0~30)VDC(Upper display)	±0.02%
	(0~100)mVDC(Lower display)	±0.02%
	(0~20)VDC(Lower display)	±0.02%
Source	(0~100)mVDC	±0.02%
	(0~10)VDC	±0.02%

Resistance	Range	Accuracy	
		4-wire	2-, 3-wire
		Accuracy	Accuracy
Measurement	(0~400)Ω	±0.1Ω	±0.15Ω
	(0.4~1.5)kΩ	±0.5Ω	±1.0Ω
	(1.5~3.2)kΩ	±1.0Ω	±1.5Ω
	Excitation Current：0.5mA Clear of resistance before measuring according to ‘10.4 Clear of Resistance and RTDs’. *3-wire: Assumes matched leads with a total resistance not exceeding 100Ω. Resolution (0~1000)Ω: 0.01Ω; (1.0~3.2)kΩ: 0.1Ω.		

Source	Range	Excitation Current from Measurement Device	Accuracy
	(15~400) Ω	(0.15~0.5)mA	±0.15 Ω
	(15~400) Ω	(0.5~3)mA	±0.1 Ω
	(0.4~1.5)k Ω	(0.05~0.8)mA	±0.5 Ω
	(1.5~3.2)k Ω	(0.05~0.4)mA	±1.0 Ω
	Clear of resistance before sourcing according to ‘10.4 Clear of Resistance and RTDs’.		

Frequency	Range	Accuracy
Measurement	(1~1100)Hz	±0.05%
	(1.0~10.0)kHz	±0.05%
	Sensitivity: Not less than 1V (peak- peak) Wave form: Square wave	
Source	(1~1100)Hz	±0.05%
	(1.0~5.0)kHz	±0.05%
	Wave form: (0~8)V (peak-peak) Load drive capability: 3mA	

DC Current	Range	Accuracy
Measurement	(0~24)mADC	±0.02%
Source	(0~24)mADC	±0.02%

Type	Range（℃）	Accuracy		
		Measure 4-wire(℃)	Measure 2-,3-(℃)	Output (℃)
Cu50	（-50~150）℃	±1.2℃	±2.0℃	±1.2℃
Pt100(385)	（-200~800）℃	±0.6℃	±1.0℃	±0.6℃
Resolution: 0.1℃ Excitation Current (Source): Cu50, Pt100(385), Pt100(3916), Pt200(385): (0.15~3.0)mA; Pt500(385): (0.05~0.80)mA; Pt1000(385): (0.05~0.40)mA. Clear of RTD before measuring or sourcing according to ‘10.4 Clear of Resistance and RTDs’. *3-wire: Assumes matched leads with a total resistance not exceeding 100 Ω.				

Thermocouple (TC)	Type	Range	Measure and Source Accuracy (When Cold Junction temperature is 0℃)
	J	(-200~0)℃	±0.8℃
		(0~1200)℃	±0.5℃
	K	(-200~0)℃	±1.0℃
		(0~1370)℃	±0.6℃
	T	(-200~0)℃	±1.0℃
		(0~400)℃	±0.6℃
	E	(-100~0)℃	±0.7℃
		(0~950)℃	±0.5℃
	R	(-20~0)℃	±2.3℃
		(0~500)℃	±1.6℃
		(500~1750)℃	±1.2℃
	S	(-20~0)℃	±2.3℃
		(0~500)℃	±1.6℃
		(500~1750)℃	±1.3℃
	B	(600~800)℃	±2.0℃
		(800~1000)℃	±1.6℃
		(1000~1800)℃	±1.2℃
	N	(-200~0)℃	±1.3℃
		(0~1300)℃	±0.7℃
Resolution : J, K, T, E, N: 0.1℃ B, R, S: 1℃ Cold junction error: ±0.5℃, does not including sensor error.			

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