

PROCESS CALIBRATOR

Temperature calibrator

Capabilities

- Simulate 13 thermocouples
- mV output with 0,03% accuracy
- Simultaneous current measurement
- Transmitter simulation 0-1V / 0-100%
- DC 24V loop power (24V DC)
- MIN, MAX, Average functions
- Relative mode
- Audible alert for high/low limit
- Opto isolated RS-232 interface

Technical Specification

Thermocouple output			
Type	Range (°C)	Resolution	Accuracy
Type J	-210 ~0	0,1°	± (0,03%+1,0°C)
	0 ~1200	0,1°	± (0,03%+0,6°C)
Type K	-200 ~0	0,1°	± (0,03%+1,0°C)
	0 ~1372		± (0,03%+0,6°C)
Type E	-200 ~0	0,1°	± (0,03%+1,0°C)
	0 ~1000		± (0,03%+0,6°C)
Type T	-200 ~0	0,1°	± (0,03%+1,0°C)
	0 ~400		± (0,03%+0,6°C)
Type R	-50 ~1768	1°	± (0,03%+1,0°C)
Type S	-50 ~1768	1°	± (0,03%+1,0°C)
Type B	300 ~1820	1°	± (0,03%+2,0°C)
Type N	-200 ~0	0,1°	± (0,03%+1,5°C)
	0 ~1300	0,1°	± (0,03%+1,0°C)
Type G	0 ~2320	1°	± (0,03%+2,0°C)
Type C	0 ~2320	1°	± (0,03%+2,0°C)
Type D	0 ~2320	1°	± (0,03%+2,0°C)
Type U	-200 ~0	0,1°	± (0,03%+1,0°C)
	0 ~600	0,1°	± (0,03%+0,6°C)
Type L	-200 ~0	0,1°	± (0,03%+1,0°C)
	0 ~900	0,1°	± (0,03%+0,6°C)
Cold junction type			
External compensation	Range	Resolution	Accuracy
	0 ~40°	0,1°	±(0,03%+0,9°C)
Pt385 / 1k ohms	-20 ~250°	0,1°	±(0,03%+12°C)
DCV output			
	-10mV to 110mV	0,01mV	±(0,03%+3d)
	-0,1V to 1,1V	0,1mV	±(0,03%+3d)
Loop power			
	100mV	0,01mV	±(0,03%+3d)
	1V	0,1mV	±(0,03%+3d)
Loop power	24V	±10%	load> 1kohms
DC mA measurement			
	20mA	1µA	±(0,03%+3d)
	200mA	10µA	±(0,03%+3d)
Alarm output			
Output voltage	3 to 24V DC		
Output current	0,01mA to 3 mA		
General Specification			
Display	LCD, backlighted		
Interface	RS-232, optoisolated, SCPI		
Operating temperature	0°C to 40°C		
Power supply	Battery 9V (alkaline)		
Autonomy	>25 hours		
Dimensions	192 x 90 x 37mm		
Weight	1240g		

Supplied with : battery, pouch, test leads, user's manual



Sefram 4821