

T100 Loop Calibrator

- Input and output capabilities
- 25% ramp facility
- Autoramp
- Voltage 100mV to 24V DC
- Current 10µA to 22mA

Technical Specification Output Capabilities

Output	Measuring Range	Output Range	Resolution	Accuracy	Remark
Current	20mA	0,000 to 22,000mA	0,001mA	±0.5% of set value	Max 1kΩ at 20mA
Simulator Transmitter	-20mA	0,000 to 22,000mA	0,001mA	±0.5% of set value	Max 1kΩ at 20mA
Loop Power	24V			±10%	Max output 25mA

Output Operating Procedure

Function Operation	% Operation	Display	Setting Range
DCA 20mA	20mA	00,000mA	00,000 to 22,000mA
	%	-025,00mA%	-025,00 to 112,50mA%

Technical Specification Input Capabilities

Input	Measuring Range	Input Range	Resolution	Accuracy	Remark
Voltage	28V	-0,200 to 28V	1mV	±0.02% of reading	Input resistance 3MΩ
Current	20mA	-1,000 to 22mA	0,001mA	±0.02% of reading	Input resistance 10Ω
Loop Current	20mA	0,000 to 22,000mA	0,001mA	±0.02% of reading	Providing 24V power

Input Operating Procedure

Function Operation	% Operation	Display	Setting Range
DCA 20mA	20mA	00,000mA	-1,000 to 22,000mA
	%	-025,00mA%	-31,25 to 112,50mA
DCV 28V		0,00V	-0,2000 to 28,000V



Model Specification

Dimensions (mm)	200(L) x 100(W) x 40(H)
Power Source	9V Battery
Weight	550g

T123 Process Calibrator

- Input capabilities
- Temperature
- Voltage 100mV to 11V DC
- Current 1µA to 22mA

Technical Specification Output Capabilities

Output	Measuring Range	Output Range	Resolution	Accuracy	Remark
DCV	100mV	-10,000mV to 110,000mV	1µV	0,02 + 0,01	Max output current: 0,5mA Max output current: 2mA Max output current: 5mA
	1000mV	-100mV to 1100mV	10µV	0,02 + 0,01	
	10V	-1,0000 to 11,0000V	0,1mV	0,02 + 0,01	
DCA	20mA	0,000mA to 22,000mA	1µA	0,02 + 0,02	Max load 1kΩ at 20mA
Resistance	400Ω	0,00Ω to 400,00Ω	0,01Ω	0,02 + 0,02	Current 0,5 to 3mA Current 0,05 to 0,3mA Current 0,01mA
	4kΩ	0,000kΩ to 4,000kΩ	0,1Ω	0,05 + 0,025	
	40kΩ	0,000kΩ to 40,000kΩ	1Ω	0,1 + 0,1	
Temperature	R	-0°C to 1767°C	1°C	1,5°C	By using ITS-90 temperature scale: The accuracy does not include the error of internal temperature compensation caused by a sensor
	S	-0°C to 1767°C	1°C	1,5°C	
	B	600°C to 1820°C	1°C	1,5°C	
	E	-200°C to 1000°C	0,1°C	0,6°C	
	K	-200°C to 1372°C	0,1°C	0,6°C	
	J	-200°C to 1200°C	0,1°C	0,6°C	
	T	-250°C to 400°C	0,1°C	0,6°C	
N	-200°C to 1300°C	0,1°C	1,0°C		
RTD	PT100-385	-200°C to 800°C	0,1°C	0,3°C	By using temperature scale ITS-90. Current varies from 0,5 to 3mA. Does not include lead resistance
	PT200-385	-200°C to 630°C	0,1°C	0,8°C	
	PT500-385	-200°C to 630°C	0,1°C	0,4°C	
	PT1000-385	-200°C to 630°C	0,1°C	0,2°C	
Frequency	100Hz	1Hz to 110,00Hz	0,01Hz	2 count	Output voltage 1 to 11Vp-p Amplitude accuracy 5% + 0,5V Max load > 100KΩ
	1KHz	0,100KHz to 1,10KHz	1Hz	2 count	
	10KHz	1,0KHz to 11,0KHz	0,1KHz	2 count	
	100KHz	10KHz to 110KHz	2KHz	2 count	
Pulse	100Hz	1 to 100000 cycles	1 cycle	2 count	Duty cycle 50%
	1KHz	1 to 100000 cycles	1 cycle	2 count	
	10KHz	1 to 100000 cycles	1 cycle	2 count	
Switch	100Hz to 100KHz	1Hz to 110KHz	0,1Hz to 2KHz	5 count	Max open/close voltage 28V and 50mA



Model Specification

Dimensions (mm)	200(L) x 100(W) x 40(H)
Power Source	9V Battery
Weight	550g