

SPECIFICATION FOR PORTABLE MULTIFUNCTION CALIBRATOR

MATERIAL CODE:-ZWG040501019

INDENT NO.:-C6360/20161450/T

A. INPUT/MEASUREMENT SECTION & OUTPUT/SOURCE SIGNAL

SN	PARAMETER		SPECIFICATION			ACCEPTED (YES/NO)	REMARKS
	SIGNAL TYPE	RANGE	MINIMUM ONE YEAR ACCURACY/UNCERTAINTY @K=2 (MEASURE)	MINIMUM ONE YEAR ACCURACY/UNCERTAINTY @K=2 (SOURCE)	MINIMUM RESOLUTION		
1	K Type TC	0-1260°C	±(0.01% R+0.1°C)	±(0.01% R+0.1°C)	0.01°C		Vendor to Comply
2	T Type TC	0-400°C	±(0.01% R+0.1°C)	±(0.01% R+0.1°C)	0.01°C		Vendor to Comply
3	R Type TC	150-1760°C	±(0.01% R+0.3°C)	±(0.01% R+0.3°C)	0.1°C		Vendor to Comply
4	S Type TC	170-1760°C	±(0.01% R+0.3°C)	±(0.01% R+0.3°C)	0.1°C		Vendor to Comply
5	J Type TC	0-1200°C	±(0.01% R+0.1°C)	±(0.01% R+0.1°C)	0.01°C		Vendor to Comply
6	PT-100/385	-200-850°C	±(0.015% R+0.06°C)	±(0.015% R+0.06°C)	0.01°C		Vendor to Comply
7	PT-100/3916	-200-850°C	±(0.015% R+0.06°C)	±(0.015% R+0.06°C)	0.01°C		Vendor to Comply
8	PT-100/3902	-200-650°C	±(0.015% R+0.06°C)	±(0.015% R+0.06°C)	0.01°C		Vendor to Comply
9	PT-100/3926	-200-850°C	±(0.015% R+0.06°C)	±(0.015% R+0.06°C)	0.01°C		Vendor to Comply
10	Voltage(mV L)	0-100 mV DC	±(0.01% R+3µV)	±(0.015% R+3µV)	1µV		Vendor to Comply
11	Voltage(mV H)	100-1000. mV DC	±(0.01% R+10µV)	±(0.015% R+10µV)	10µV		Vendor to Comply
12	Voltage(Volt)	1-12 V DC	±(0.01% R+2.5mV)	±(0.02% R+0.6mV)	0.1mV		Vendor to Comply
13	Current(mA)	0-20 mA DC	±(0.01%R+3µA)	±(0.025%R+3µA)	1µA		Vendor to Comply
14	Resistance(Ω)	0-400 Ω	±(0.01%R+12mΩ)	±(0.01%R+20mΩ)	1mΩ		Vendor to Comply

B. OTHER PARAMETERS

B. OTHER PARAMETERS		SPECIFICATION	ACCEPTED	REMARKS
1	REFERENCE JUNCTION COMPENSATION	Internal, External & User Selectable		Vendor to Comply
2	COMMON MODE REJECTION RATIO	More than 140 dB for AC operation		Vendor to Comply
3	NORMAL MODE REJECTION RATIO	More than 70 dB for 50 Hz frequency		Vendor to Comply
4	INPUT IMPEDANCE (mV, V, TC Range)	More than 10 MΩ		Vendor to Comply
5	INPUT IMPEDANCE (mA Range)	Less than 100 Ω @ 1mA		Vendor to Comply
6	OUTPUT IMPEDANCE(EMF O/P)	Less than 1 Ω with 1 mA maximum current		Vendor to Comply
7	MAXIMUM LOAD RESISTANCE	1000Ω @20 mA		Vendor to Comply
8	RTD CONNECTION TYPE	2 Wire, 3 Wire, 4 Wire & User selectable from Program Menu		Vendor to Comply
9	ELECTRICAL PROTECTION	50 V DC		Vendor to Comply

Shaiikh
07/06/2016

Sanku By Chandhu
08/06/16

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ANNEXURE 'A'

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10	POWER SUPPLY	100-240V AC,50 Hz with Rechargeable battery		Vendor to Comply
11	DISPLAY	1.Six Digit display		Vendor to Comply & Provide Details
		2.Simultaneous display of Measure & Source value		
		3.Backlight alphanumeric LCD display with contrast control		
		4.Reading to be Scaled & Displayed in User Defined Unit		
12	OPERATING MODE	Source, Measure, Simultaneous Measure/Source		Vendor to Comply
13	OPERATING TEMP	0-50°C		Vendor to Comply
14	HUMIDITY	0-80% RH Non condensing		Vendor to Comply
15	SIZE & DIMENSION (L X W X H)	Portable size, [Max. 32 cm x Max. 22cm x Max.10cm]		Vendor to Comply & Provide Details
16	WEIGHT	5.0 Kg Max		Vendor to Comply
17	PROTECTION	Voltage source short circuit, Current source open circuit		Vendor to Comply
18	ACCESSORIES	Proper compensating leads for Thermocouple connection with proper connector & also connector for RTD. Accessories should be complete in all respect.		Vendor to Comply & Provide Details
19	BATTERY CAPACITY	Min 5 Hrs. working with full charge battery		Vendor to Comply
20	CHARGING UNIT	Charging unit must be supplied with battery or inbuilt.		Vendor to Comply
21	TRAINING	Atleast 2 Days Training is required for Operation/Maintenance		Vendor to Comply
22	MAKE OF CALIBRATOR	EUROTRON/SCANDURA/WIKA/BEAMEX/FLUKE/AOIP		Vendor to Comply
23	DOCUMENT & MANUAL	Vendor has to provide Original document along with soft copy & circuit Diagram of the Calibrator		Vendor to Comply
24	CALIBRATION	Accredited calibration certificate from National/International Laboratory is required for the Supplied Calibrator .		Vendor to Comply & Provide Details
25	WARRANTY	Minimum one Year Warranty from the date of commissioning		Vendor to Comply

NOTE:-Accuracy/Uncertainty Specification will be considered as per Original document/specification.

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 07/06/2016
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