

TECHNICAL DATA SHEET FOR MULTI-FUNCTION PROCESS CALIBRATOR

S.No	PARAMETERS	To be Specified / Confirmed by Vendor	Offered	Deviations	Remarks
1	Dual Display	To be Confirmed by Vendor			
2	General Specifications				
2.1	Operating temperature 5°C to 65°C	To be Confirmed by Vendor			
2.3	Relative Humidity 30-98%	To be Confirmed by Vendor			
2.4	Battery Type - to be specified by the vendor	To be Specified by Vendor			
2.6	Computer Interface port type	To be Specified by Vendor			
2.7	Bi-directional for downloading procedures and uploading results	To be Confirmed by Vendor			
2.8	Calibrator Pressure Ports(Dimensions)	To be Specified by Vendor			
2.9	Stability <0.1% FS/annum	To be Confirmed by Vendor			
2.10	Electrical Stability 0.03% of reading/annum	To be Confirmed by Vendor			
3	Pressure Measurement				
3.1	Units of measurement	To be Specified by Vendor			
3.2	psi, inH2O, kPa, cmH2O, bar, mbar, kg/cm2, mmHg,cmHg,inHg	To be Confirmed by Vendor			
3.3	Resolution: 5digits	To be Confirmed by Vendor			
3.4	Accuracy & Range determined by pressure module.	To be Confirmed by Vendor			
4	DC Voltage Measurement & Source				
4.1	Range: 0-30V	To be Confirmed by Vendor			
4.11	Resolution 0.01 V	To be Confirmed by Vendor			
4.12	Accuracy ±0.02% of reading+3 count	To be Confirmed by Vendor			
4.2	Range 0-100mV	To be Confirmed by Vendor			
4.21	Resolution 0.01mV	To be Confirmed by Vendor			
4.22	Accuracy ± (0.02 % of reading + 3 count)	To be Confirmed by Vendor			
5	MilliVolt Measurement & Source(Thermocouple Terminal)				
5.1	Range (-10 mV to 75 mV)	To be Confirmed by Vendor			
5.2	Resolution 0.01 mV	To be Confirmed by Vendor			
5.3	Accuracy ±(0.025 % of reading+ 3 count)	To be Confirmed by Vendor			
6	MilliAmpere Measurement & Source				
6.1	Range (0-24) mA	To be Confirmed by Vendor			
6.2	Resolution 0.001 mA	To be Confirmed by Vendor			
6.3	Accuracy (0.025 % of reading+ 3 count)	To be Confirmed by Vendor			
7	OHM measurement				
7.1	Ohms Range (0-4000Ω)	To be Confirmed by Vendor			
7.2	Resolution 0.01 ohm to 0.1 ohm	To be Confirmed by Vendor			
7.3	Accuracy ± 0.05%	To be Confirmed by Vendor			

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8	Ohms Source				
8.1	Ohms Range (0-4000Ω)	To be Confirmed by Vendor			
8.2	Resolution 0.01 ohm to 0.1 ohm	To be Confirmed by Vendor			
8.3	Accuracy ± 0.05%	To be Confirmed by Vendor			
9	Temperature Measurement				
9.1	Thermocouple				
9.1.1	TYPE J,K,T,E,L,N,U,B,R,S	To be Confirmed by Vendor			
9.1.2	Resolution 0.1°C	To be Confirmed by Vendor			
	Accuracy for J,K,T,E,L,N,U - 2°C	To be Confirmed by Vendor			
9.1.3	Accuracy B,R,S -4.0°C	To be Confirmed by Vendor			
9.2	RTD				
9.2.1	Type Pt 100,200,500,1000(385);Pt 100(3916);Pt 100(3926);Cu 10 Ni 120(672)	To be Confirmed by Vendor			
9.2.2	Resolution 0.01°C	To be Confirmed by Vendor			
9.2.3	Accuracy ± 0.05%	To be Confirmed by Vendor			
10	Frequency Measurement				
10.1	Range (1 to 1000)Hz,Resolution 0.1 Hz,Accuracy ± (0.05 % of reading+ 3 counts)	To be Confirmed by Vendor			
10.2	Range (1.0 to 10)kHz,Resolution 0.01 kHz,Accuracy ± (0.25 % of reading+ 3 counts)	To be Confirmed by Vendor			
10.3	Range (10 to 15)kHz,Resolution 0.01 kHz,Accuracy ± (0.5 % of reading+ 3 counts)	To be Confirmed by Vendor			
11	Frequency Source				
11.2	Range (1 to 1000)Hz,Resolution 1 Hz,Accuracy ± (0.05 % of reading)	To be Confirmed by Vendor			
11.3	Range (1.0 to 10.0)kHz,Resolution 0.1 kHz,Accuracy ± (0.25 % of reading)	To be Confirmed by Vendor			
12	Loop power output 24 V ± 10%	To be Confirmed by Vendor			
13	Pressure Pump				
13.1	Pneumatic Hand held Pressure pump shall be supplied along calibrator to generate the following pressure	To be Confirmed by Vendor			
13.2	Pressure 0 to 600 psi	To be Confirmed by Vendor			
13.3	Vacuum 0 to 28.5 inHg	To be Confirmed by Vendor			