

masibus	Specification Sheet	Issue No.:- 00 Date:- 28-10-09
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Document Ref. No.: m73H/spc/101

Model No.: LI4248

Model name: Low Cost Temperature Indicator



Sr.No.	SPECIFICATION	Input	Range	Resolution
		J TC	-200 to 1200 °C	1 °C
J TC	-199.9 to 999.9 °C	0.1 °C		
K TC	-200 to 1372 °C	1 °C		
K TC	-199.9 to 999.9 °C	0.1 °C		
RTD	-200 to 850 °C	1 °C		
RTD	-199.9 to 850.0°C	0.1 °C		
Linear	-1999 to 9999°C	1 °C		
1.	Input	Linear: 0-5V, 1-5V 0-20mA, 4-20mA (For Current Input Use Resistor 250Ω 0.1% externally).		
2.	Display Range			
3.	Display	7-seg (4 digit, 0.56" red color)		
4.	Display update rate	Continuous		
5.	No. of inputs	1		
6.	Resolution	15 bits		
7.	Sampling Period for thermocouple	250ms		
8.	Sampling Period for RTD	500ms		
9.	Optional Outputs	Relays : (1) Individual set points outputs with rating of 2A@230VAC Relay contact terminal: Three (NO, NC, Common) (2) Individual Hysteresis setting		

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		<p>0 to 100 (3) Configurable to energize or De-energize (SPDT).</p> <p>TPS: 24VDC \pm 5% @ 30mA</p>
10.	Isolation	<p>Primary terminals: 1.5 KV dc (Supply, Relay) Secondary terminals: 1.5KV (I/O)</p>
11.	Input impedance	>1MΩ
12.	Display accuracy	<p>* Linear: $\pm 0.25\%$ Full Span ± 1 Count</p> <p>* RTD, T/C: For $>0^{\circ}\text{C}$ $\pm 0.25\%$ Full Span ± 1 Degree For $<0^{\circ}\text{C}$ $\pm 0.5\%$ Full Span ± 1 Degree</p>
13.	Power supply	85-265V AC@50Hz
14.	Configuration	Using keypad
15.	Zero & Span adjustment	Through S/W using keypad
16.	Calibration	<p>(1) Zero and Span adjustment by digital Info.</p> <p>(2) Automatic CJC adjustment for T/C type input and 3 wire compensation For RTD input.</p> <p>(3) One shot calibration</p>
17.	Cold Junction Compensation	Built in (through s/w using precision CJC sensor)
18.	Burn Out Current	0.25uA

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19.	Ambient temperature	0 to 55 °C
20.	Humidity	20 % to 90 % RH (Non Condensing)
21.	Ambient temp. effect	± 2 °C
22.	I/P Protection	Against short ckt. & open ckt.
23.	CMRR	>100 dB
24.	NMRR	> 40 dB
25.	Power consumption	< 5VA
26.	Response time	250ms
27.	Linearization Method	Through S/W using micro controller
28.	Mechanical Specification	48X96X65 mm
29.	Body Construction	ABS plastic
30.	Case color	Black
31.	Weight	Approximately 0.187 Kg
32.	Mounting	Panel Mounting
33.	Mounting clamps	2 mounting clamps
34.	Special functions.	Brightness Control Using Keypad Only