



LC4248 Controller LI4248 Indicator

Models LI4248 Indicator and LC4248 Controller are compact and cost effective meters for general purpose Temperature and other process applications, the models have 0.56" display with brightness control to suit any ambience light and a depth of only 75mm to fit into most compact panels.

4248 series comes with user programmability for input sensor, scaling and resolution; Transmitter supply with current limit is a standard feature to excite 2W Transmitters. Wide range of Aux Supply from 85-265V AC is standard with option of 18-36V DC.

LC4248 model has two programmable relays for Alarm, Control or as a switch.

Features

- Universal input (TC, RTD, Volts)
- 4-digit 0.56" LED display
- Fully programmable and calibrated from front keys
- Compact with depth of 75mm
- Universal (AC/DC) power supply
- Transmitter power supply
- Display brightness control

Applications

- Water boilers
- Chillers
- Oven
- Machine monitoring/control
- Alarm/Trip module
- Temperature Switch

Technical Specifications

Input	
Input Type	Thermocouple (J, K), RTD (Pt100), Voltage
Display Range	Refer Table-1
Accuracy	0.25% of FS \pm 1 Count
ADC Resolution	16 bits
Display Resolution	0.1 / 1.0 °C
Sampling Rate	4 Samples/Sec
CJC Error	\pm 2.0 °C
Sensor open	All inputs except 0-5V
Sensor Burnout current	0.5uA
RTD excitation current	0.166mA (Approx)
NMRR	> 40dB
CMRR	> 120dB
Temp-co	< 150ppm/°C
Input Impedance	> 1M Ω
Max Voltage	20VDC

Display & Keys	
Process Value	0.56", Red 4 digit
Keys	Select, Up/Down

Output	
Transmitter Supply	24VDC (\pm 10%) @30mA (Current limited)

Relay Output (Model LC4248)	
Number of Relays	2
Type	Single change over (C, NO, NC)
Rating	2A@230VAC/30VDC

Power Supply	
Standard	85-265VAC/ 125-300VDC
Optional	18-36VDC
Power Consumption	<5VA

Isolation (Withstanding voltage)

- Between primary terminals* and secondary terminals**:
At least 1500 V AC for 1 minute

* Primary terminals indicate power terminals.

** Secondary terminals indicate analog I/O signal .

Physical	
Dimensions:	
Size	96(W) x 48(H) x 85(D) mm
Front Bezel	96 x 48 mm
Panel Cutout	92 x 45mm
Depth behind panel	75 mm
Weight	300 gms approx.
Enclosure Material	Molded ABS
Enclosure Protection	IP20
Terminal Cable Size	2.5mm ²

Environmental	
Operating temperature	0-55 °C
Storage temperature	0-80 °C
Humidity	20-95 %RH non-condensing

Table-1: Display Range

Input Type	Range
J	-200 to 1200 °C, -199.9 to 999.9 °C
K	-200 to 1372 °C, -199.9 to 999.9 °C
Pt100	-200 to 850 °C, -199.0 to 850.0 °C
0/1-5V	
0/4-20mA (Ext.250 Ω)	-1999 to 9999

Ordering code

Model	Input		Auxiliary Power Supply	
LI4248	1	J	U1	80-265VAC / 125-300VDC
LC4248	2	K	U2	18-36VDC
	3	Pt-100		
	C	1-5V		
	D	0-5V		

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All specifications are subject to change without notice due to continuous improvements.
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