LCI208 1/8 DIN 4 Digit Panel Meter Indicators

The LCI208 Series 4 digit panel meter indicators offer flexibility, and value in a low cost, compact 1/8 DIN package. This family of indicators offers input availability for virtually all types of process measurement.



STANDARD FEATURES

- **High Accuracy**
- **Peak and Valley Display**
- **Tare Feature**
- **Optional Option Modules**
- **IP65 (NEMA 4X) Front Panel**

The shallow depth of these full size panel meters allows installation in panels only 100mm (4inches) deep with room to spare.

In addition to the features and power of the LCUI108, the LCI208 adds more flexibility and additional features such as Peak and Valley indication and a Tare function

Inputs are available for Process (0 to 10V, 4 to 20 mA), Electrical Variables)AC Volts, AC Amps, DC Volts, DC Amps), Temperature (RTD & Thermocouple), Load Cell (strain gauge), Time, and Frequency. The process load cell, and frequency inputs have appropriate transducer excitation power supplies, giving you everything you need in a compact package.

Options include set point outputs (2 SPDT 8A mechanical relays), RS-232/RS-485 computer communications, and 4 to 20 mA analog retransmission.

For high performance in a compact, low cost package, the LCI208 is the panel meter indicator you need for your application.

CE

Input Ranges

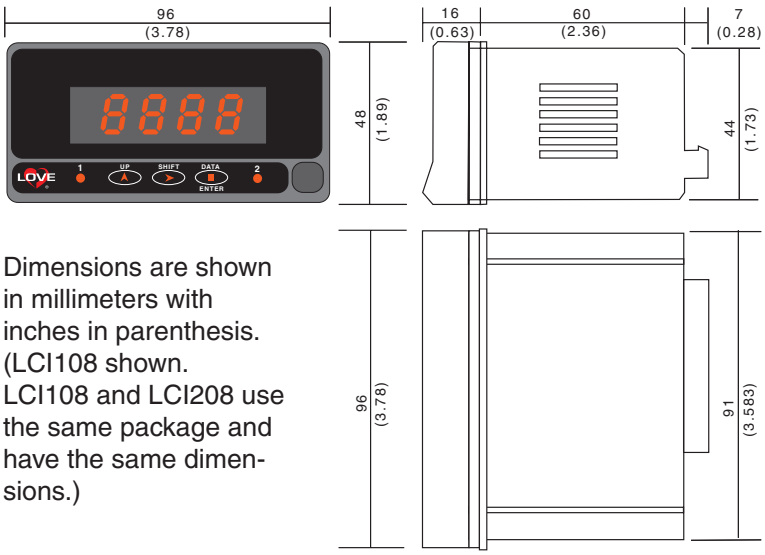
INPUT TYPE		RANGE	RANGE
Temperature			
Type J Thermocouple		-58.0 to +392.0 F	-50.0 to +200.0 C
Type J Thermocouple		-58 to +1562 F	-50 to +850 C
Type K Thermocouple		-58.0 to +392.0 F	-50.0 to +200.0 C
Type K Thermocouple		-58 to +2282 F	-50 to +1250 C
Type T Thermocouple		-148.0 to +212.0 F	-100.0 to +100.0 C
Type T Thermocouple		-328 to +752 F	-200 to +400 C-
100 Ω Plt. 0.00385 DIN RTD -100.0 to +200.0 C			-148.0 to +392.0 F
100 Ω Plt. 0.00385 DIN RTD -200 to +800 C			-328 to 1472 F
Process (Includes excitation power supply)			
±10 V		Scalable Units from -1999 to +1999	
±20 mV		Scalable Units from -1999 to +1999	
Electrical Variables			
Volts DC	0 to 600V	0 to 200V	0 to 20V
Volts AC	0 to 600V	0 to 200V	0 to 20V
Amperes DC			0 to 5A 0 to 1A
Amperes AC			0 to 5A 0 to 1A
Frequency (Includes excitation power supply)			0.1 to 2000 Hz
Counter (includes excitation power supply)			500 Hz maximum.
Load Cell (includes excitation poiwer supply)			±300 mVDC

MOD-TRONIC INSTRUMENTS LIMITED
1 Delta Park Blvd, #12 Brampton, ON L6T 5G1
Tel 905-457-6322 or 1-800-794-5883
Fax 905-457-4716 or 1-800-830-7122
sales@mod-tronic.com www.mod-tronic.com

FRONT PANEL KEY FUNCTIONS



DIMENSIONS



Dimensions are shown in millimeters with inches in parenthesis. (LCI108 shown. LCI108 and LCI208 use the same package and have the same dimensions.)

MODEL IDENTIFICATION

To order, specify part number by filling the boxes with the appropriate numbers. If no options are desired, leave those boxes blank.

LCI208 - ☐ ☐

Input
0 = Process
1 = Temperature (Thermocouple J,K,T, RTD)
2 = Electrical Variables (VAC, VDC, AAC, ADC)
3 = Frequency
4 = Counter
5 = Load Cell

Power Supply
0 = 120/240 VAC, 50-60 Hz
1 = 24/48 VAC, 50-60 Hz
2 = 12 VDC (10.5 to 16V)
3 = 24 VDC (21 to 32V)
4 = 48 VDC (42 to 64V)

Accessories: (Order Separately. See Pages 66-69 for details)

LCIA-01 Dual Relay Card. Two SPDT relays, 8A @ 240VAC
LCIA-06* Analog Retransmission, 4 to 20 mADC*
LCIA-10 RS-232/RS-485 Serial Communications

* LCIA-06 is not compatible with Input Types 3 and 4. If you need this combination of features, see the LCI308-30 on Page 56.

SPECIFICATIONS

Process Input Type:
Process Input: ±10VDC or ±20mADC, selectable.
Resolution: Voltage, 1 mV; Current, 10 µA.
Impedance: Voltage, 1MΩ; Current, 12.1Ω.
Excitation: 24 VDC ±5V @ 25mA

Temperature Type: (Stated Accuracy at 23° ± 5° C)
Thermocouples:
Cold Junction Compensation: -10 to 60° C (14 to 140° F)
Maximum Error:
0.1° Resolution: ±0.4% of reading +0.6°C (1° F)
1° Resolution: ±0.4% of reading +1°C (2° F)
RTDs:
Excitation Current: <1mA.
Maximum Lead Resistance: 40 Ω total cable (balanced)
Maximum error:
0.1° Resolution: ±0.1% of the reading +0.3° C (0.5° F)
1° Resolution: ±0.1% of the reading +1° C (+1.5° F)

Electrical Variables:
Current: (Stated Accuracy for DC, 40 to 1000Hz)
Input Impedance: 0.012 Ω for 5A range, 0.06 Ω for 1 A range
Voltage: (Stated Accuracy for DC, 40 to 1000Hz)
Input Impedance: 3 MΩ for 600 V range, 300 kΩ for 200 V range, 30 kΩ for 20 V range

Frequency and Counter:
Range: 0.1 to 7500 Hz.
Excitation: 8V or 24V @ 30 mA, selectable.
Magnetic Pickup Sensitivity: Vin(AC)> 1200 mV eff.
NAMUR Sensor: Rc: 1 KΩ**; Ion** < 1mA; **Ioff** > 3 mA.
TTL or Logic: "0" < 2.4 VDC; "1" > 2.6 VDC.
Transistor (PNP, NPN): Rc = 1 kΩ; **"0"** < 2.4 VDC; **"1"** > 2.6 VDC.
Contact Closure: Vc = 5V; **Rc** = 3.9 kΩ; **Fc** = 100 Hz

Load Cell:
Input: ±300 mVDC
Resolution: 3µV
Input Impedance: 100 MΩ for 300 mV, 1 MΩ for 30 mV
Excitation: 5 V or 10 V @ 30 mA, selectable.

Common Input Characteristics:
Accuracy: ±0.1% of reading, +3 counts (except Temperature Input)
Warm up time: 5 minutes
Temperature Coefficient: 100 ppm/°C
Step response time: 400 ms

Supply Voltage: 120 / 240 VAC 50/60 Hz. ±10%
Optional Supply Voltages:
1: 24 / 48 VAC 50/60 Hz. ±10%
2: 12 VDC nominal (10.5 to 16VDC)
3: 24 VDC nominal (21 to 32 VDC)
4: 48 VDC nominal (42 to 64 VDC)
Power Consumption: 3 W maximum.
Operating Temperature: -10 to +60 °C (+14 to 140 °F).
Storage Temperature: -25 to +85 °C (-13 to 185 °F).
Humidity Conditions: < 95% @ 40° (104° F) non-condensing.
Panel Cutout: Panel Cutout: 92 mm x 45 mm (3.625" x 1.775").
Depth Behind Mounting Surface: 60 mm (2.4") plus connector.
Weight: 250 g (8 oz).
Agency Approvals: CE.
Front Panel Rating: IP65 (Type 4X).