

C+C Miniature LED Digital Panel Meters CX102

CX102 series of digital panel meters proved to of high reliability, good quality and fine workmanship with competitive pricing for a variety of applications.

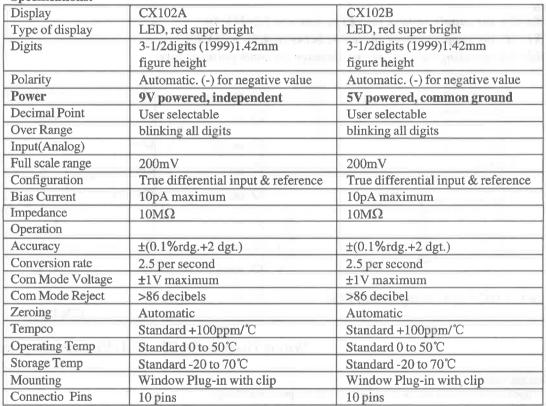
Combining unmatched performance with a high degree of reliability, the 3-1/2 digit LED panel meter is the. first choice for many applications that require instrumention.

CX102 series consist of 2 versions:

1) CX102A: 9V independent power supply.

2) CX102B: 5V power supply, power supply and signal under measurement can have common ground





Pin1 - V+

Pin2 - V-

Pin3 - DP COM, Analog Common

Pin4 - DP1, Decimal point left of hundreds digit

Pin5 - DP2, Decimal point left of tens digit

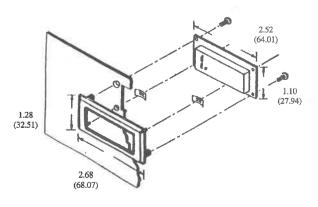
Pin6 - DP3, Decimal point left of units digit

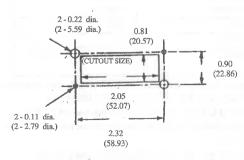
Pin7 - INPUT (+)

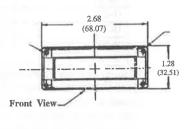
Pin8 - INPUT (-) Pin 10- No Connection

Pin9 - No Connection

Pin10 - No Connection







Full Scale Adjustment

This is done and Q.Ced in our factory. However, after adding voltage divider, further adjustment sometimes is needed to the trimpot on the back of this DPM.

Input/Output Connections (for CX102B only)

In systems where the power supply and signal under measurement are isolated, pins 2 and 8 should be connected directly or throught a $10K\Omega$ resistor.

Decimal Point Selection

The decimal point is user selectable for three positons by simple pinstrapping. The decimal point is selected as follows:

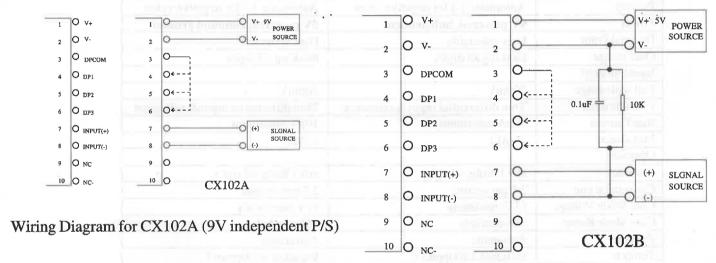
Pin 4 shortcircuits to Pin 3 - lights the decimal point left to hundreds digit

Pin 5 shortcircuits to Pin 3 - lights the decimal point left to tens digit

Pin 6 shortcircuits to Pin 3 - lights the decimal point left to units digit

Caution

For CX102A, the supply voltage should be between 7.2-11V DC For CX102B, the supply voltage should be between 4.75-5.25V DC. If outside the operating voltage, it will damage the units permanently.



Wiring Diagram for CX102B (5V common ground P/S)

How to use the add-on board:

We have also developed an easy-to-use add-on board, to have all the precision voltage divider resistor added thereon.

- 1) The add-on board is used to expand the measuring range from ±200mV DC to ±200V, ±200V, ±500V DC.
- 2) Desolder the selection joint 200mV (we soldered in factory). Make the measuring range selection by soldering the selection joints 20V, 200V or 500V and also select the decimal point therefor by shortcircuiting the points marked DP1, DP2 or DP3 to Pin 1 (CX101) or to Pin 3 (CX102).

Max measuring	Selection Joint	Decimal point
range	soldered	selection
0-20V	20V	DP2
0-200V	200V	DP1
0-500V	500V	no shortcircuit to Pin

- 3.Cnnect an indepent 9V voltge to V+ and V of the add-on board. And connect the both ends of the voltage to be measured to Vin and GND on the board.
- 4. Insert the pins on the back side of CX101 or CX102 into the socket of the add-on board, pin by pin, 13 pin socket for CX101 or 10 pin socket for CX102. especially pay attention to polarity.
- 5. The miniature digital panel meter and the add-on board are ready to use.