MECO®

3½D LCD Digital Panel Meter
Model : LC035

1.000

User Manual

4. OPERATION :

a) If needed, add proper voltage dividers (not included) and decimal point wire jumper.

Max. Voltage to be measured	Proper Voltage Divider	Decimal Point fixing method
200mV	-	Shortcircuit P1 on & P2, P3 off
2V	Disconnect wire jumper in RB RA = 1.1KV, RB = 10MV	Shortcircuit P3 on & P1, P2 off
20V	Disconnect wire jumper in RB RA = 100KV, RB = 9.9MV	Shortcircuit P2 on & P1, P3 off
200V	Disconnect wire jumper in RB RA = 10KV, RB = 9.99MV	Shortcircuit P2 on & P1, P3 off
500V	Disconnect wire jumper in RB RA = 1KV, RB = 9.999MV	

Shortcircuit N on to enable polarity sign function or shortcircuit N off to disable polarity sign function RA and RB are ½ W 0.5% Metal film resistors.

b) Connect 7-11V DC power supply to panel meter. Pay attention to the proper polarity.

c) For range other than 200mV, input accurately ½ x Max. Voltage generated by calibrator (e.g. 100.0V for 200.0V range) and carefully adjust the semi-fixed resistor R4 to have same reading in L.C.D.

d) Connect the input voltage to be measured to V in and GND. The input voltage should be DC only.

1. FEATURES :

● 200mV full scale input sensitivity ● Single 9V DC operation ● Decimal point selectable ● 13mm figure height ● Automatic Polarity indication ● Guaranteed zero reading for 0 volt input ● High input impedance (> 10 MV) ● Easy Bezel fixing Method

2. APPLICATIONS :

● Voltmeter ● Thermometer ● PH Meter ● DB Meter ● Watt Meter ● Current Meter ● Capacitance Meter ● Lux Meter ● LCR Meter ● Other industrial & domestic uses.

3. SPECIFICATIONS :

Maximum Input	: 199.9mV DC
Maximum Display	: 1999 (3½ Digit) with automatic polarity indication
Indication Method	: LCD Display
Measuring Method	: Dual-Slope Integration A-D converter system
Overrange indication	: " 1 " shown in the display.
Reading rate time	: 2-3 reading per second.
Input Impedance	: > 10MV
Accuracy	: ± 0.5% of full scale (23⁰±5⁰C < 80%RH)
Power Dissipation	: 1mA DC
Decimal Points	: Selectable with wire jumper
Supply Voltage	: 7-11V DC
Size	: 68mm x 44mm

Test Result : S.No. ....

Input					
Result	OK	OK	OK	OK	OK

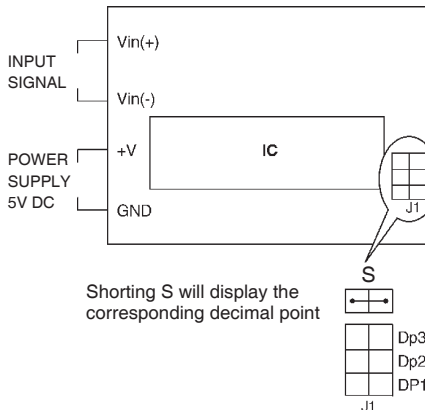Checked by : .... Date : ....

MECO®
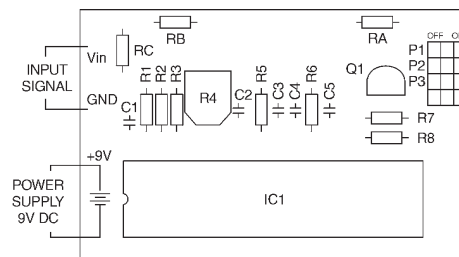
3½D LED Digital Panel Meter
Model : LC135

-190.0

User Manual

b) Connect 5DC power supply to panel meter. Pay attention to the proper polarity.

c) For range other than 200mV, input accurately ½ x Max. Voltage to be measured, (e. g. 100.0V for 200.0V range by calibrator) and carefully adjust the pot R2 to have some reading in LED display.

d) Connect the input voltage to be measured to V in (+) and V in (-). The input voltage should be DC only.

INPUT SIGNAL — Vin(+) / Vin(-)

POWER SUPPLY 5V DC — +V / GND

IC

J1

Shorting S will display the corresponding decimal point

S

Dp3
Dp2
DP1
J1

Test Result : S.No. ....

Input					
Result	OK	OK	OK	OK	OK

Checked by : .... Date : ....

Note :
Please ensure that when shunt is use, it must be connected on the ground / common side of the load and not on the supply side.

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1. FEATURES :
● 200mV full scale input sensitivity ● Single 5V DC operation ● Decimal point selectable ● 14.2mm figure height ● Automatic Polarity indication ● Guaranteed zero reading for 0 volt input ● High input impedance (> 10 MV) ● Easy Bezel fixing Method

2. SPECIFICATIONS :

Maximum Input	: 199.9mV DC
Maximum Display	: 1999 (3½ Digit) with automatic polarity indication
Indication Method	: LED Display
Measuring Method	: Dual-Slope A-D conversion
Overrange indication	: " 1 " or " -1 " shown in the display.
Reading rate time	: 2-3 reading per second.
Input Impedance	: > 10MV
Accuracy	: ± 0.5% of full scale ($23^0 \pm 5^0$C < 80%RH)
Power Dissipation	: <1W
Decimal Points	: Selectable with wire jumper
Supply Voltage	: 5V DC
Size	: 68mm x 44mm

3. OPERATION :

a) If needed, add proper voltage dividers (not included)

Max. Voltage to be measured	Proper Voltage Divider
200mV	-
2V	Disconnect wire jumper in RA RA = 1.1MV, RB = 9.9MV
20V	Disconnect wire jumper in RA RA = 100KV, RB = 9.99MV
200V	Disconnect wire jumper in RA RA = 10KV, RB = 9.99MV
500V	Disconnect wire jumper in RA RA = 1KV, RB = 9.999MV

RA and RB are ½W 0.5% Metal Film Resistors.