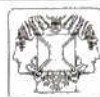


PMLCD - PMLCD/L - PMLED - PMLED/5 – 3-1/2D DIGITAL PANEL METER

1. Introduction



velleman
components

To all residents of the European Union

Important environmental information about this product



This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment.

Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialised company for recycling.

This device should be returned to your distributor or to a local recycling service.

Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Thank you for buying our product! Please read the manual thoroughly before bringing this device into service.

If the device was damaged in transit, don't install or use it and contact your dealer.

2. Features

- 200mV full scale input sensitivity
- Decimal point selectable
- 14mm (0.56") figure height
- Automatic polarity indication
- Guaranteed zero reading for 0V input
- High input impedance (> 100Mohm)

3. Applications

Voltmeter, thermometer, PH meter, dB meter, Watt meter, current meter, capacitance meter, Lux meter, LCR meter, other industrial & domestic uses

4. Specifications

Maximum input	199.9mVDC
Maximum display	1999 counts (3-1/2 digits) with automatic polarity indication
Indication method	PMLED(/5) : LED display; PMLCD(/L) : LCD display
Measurement method	Dual-Slope integration A/D converter system
Over range indication	"1" shown in the display
Reading rate time	2 - 3 readings per sec
Input impedance	>10MΩ
Accuracy	+/- 0.5% (23° +/- 5°C, <80% RH)
Power dissipation	50 - 60mA DC
Decimal point	Selectable with wire jumper
Supply voltage	PMLED/5 : +5VDC; others: +9VDC
Size	68 x 44mm

5. Operation

- If needed, add proper voltage dividers (not included) and decimal point wire jumper:
(RA and RB are 1/2 W 0.5% metal film resistors)

Max. Voltage to be measured	Proper Voltage Divider	Decimal Point
200mV	-	Short-circuit P3 - P0
20V	Disconnect wire jumper in RB. RB = 9.9M Ω ; RA = 100k Ω	Short-circuit P2 - P0
200V	Disconnect wire jumper in RB. RB = 9.99M Ω ; RA = 10k Ω	Short-circuit P1 - P0
500V	Disconnect wire jumper in RB. RB = 9.999M Ω ; RA = 1k Ω	

- Connect a +5 or +9VDC power supply to the panel meter (depending on the model).
- For ranges other than 200mV, generate an input voltage of exactly half the measuring range (e.g. 100V for 200V range) and carefully adjust the semi-fixed resistor R2 until you obtain the same reading on the display.
- Connect the input voltage to be measured to +Vin and -Vin. The input voltage should be DC only.

The information in this manual is subject to change without prior notice.

