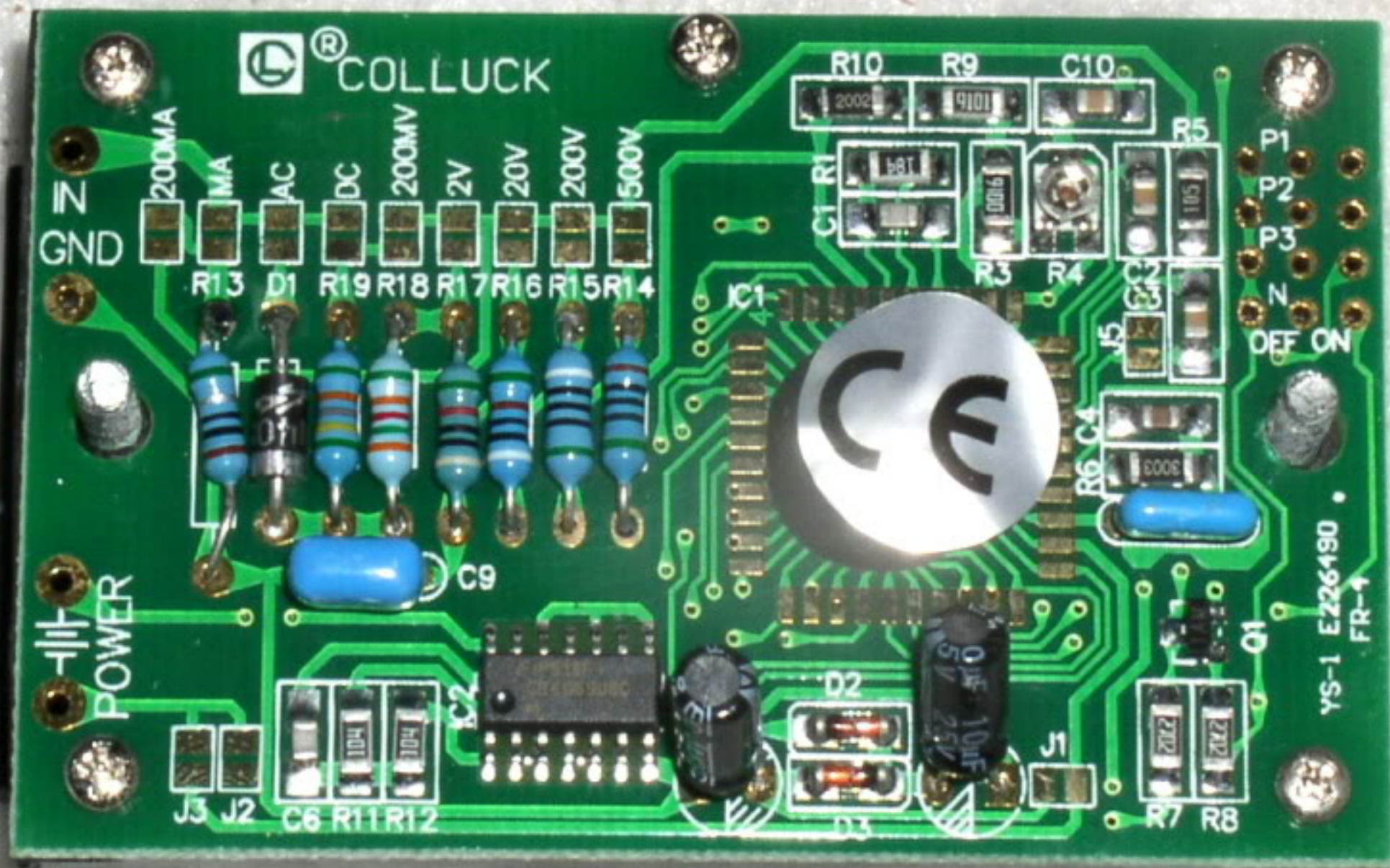


range&function select jumpers

Decimal point select



Power select jumpers

## PM 128-E Users' Manual

### 3-1/2 LCD DIGITAL PANEL METER (with build-in Voltage Divider and Rectifier)

This is a very popular display unit and can be used for varies applications such as Volt meter, Amp meter Temperature meter and many others.

#### Power Supply Select:

5V DC Common Ground power supply:(5VDC $\pm$ 10%)

Shortcircuit J1 and J2; leave J3 and J5 open.

9V DC Independent power supply: (9VDC $\pm$ 20%)

Shortcircuit J3 and J5; leave J1 and J2 open.

#### Signal Input:

Input the signal to be measured between the IN and GND connectors.

#### Range Select:

Select your requires range by shortcircuit the revelent jump pads.

#### Examples:

1, Set up the meter to work as 200mV DC display.

\*Shortcircuit the DC and 200mV jump pads and leave all of the other range jumps open.

2, set up the meter to work as 200mA DC display.

\*Shortcircuit the 200mA, DC and mA jump pads and leave all the other range jumps open.

#### Decimal point and the "-" sign set up:

Short one of the P1, P2 or P3 jumper\* for the designed decimal point position.

P1 ON to have one digit after the decimal point, P2 ON to have two digits after the decimal point

and P3 ON to have three digits after the decimal point N ON to display "-" sign.

#### Specification:

Function	Range	Resolution	Accuracy**
A DC	200mA	100 $\mu$ A	can be adjusted to $\pm(0.3\% \text{ reading} + 3.5 \text{ digits})$
V AC	200V	100mV	$\pm(2\% \text{ reading} + 3.5 \text{ digits})$
	500V	1 V	
V DC	200mV	0.1mV	$\pm(0.8\% \text{ reading} + 3.5 \text{ digits})$
	2V	1mV	
	20V	10mV	
	200V	100mV	
	500V	1V	

Indication Method: 1999 count LCD display automatic polarity indication.

Measuring Method: Dual-Slope Integration A-D converter system

Over-range Indication: "1" displayed

Sampling Rate: 2-3 sec.

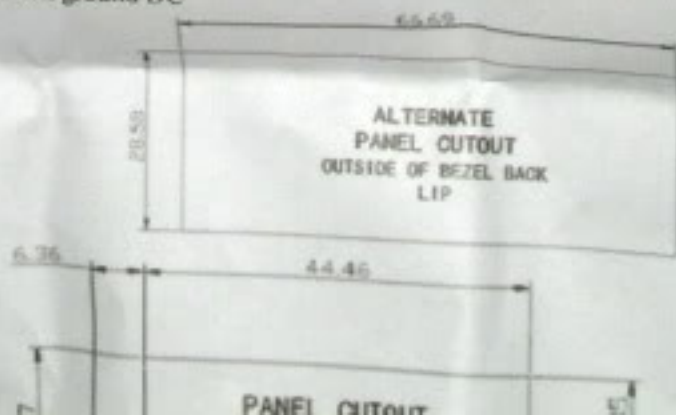
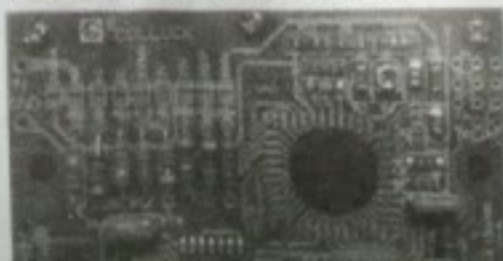
Input Impedance: 10 Mohm

Power Supply: 9V independent DC or 5V common ground DC

Size: 68mm x 44mm

\* Refer to the diagram of PM128-E

\*\* If the meter is ordered by setting to a specific range, the accuracy can be much high.



## PM 128-E Users' Manual

3-1/2 LCD DIGITAL PANEL METER (with build-in Voltage Divider and Rectifier)

This is a very popular display unit and can be used for various applications such as Volt meter, Amp meter Temperature meter and many others.

### **Power Supply Select:**

5V DC Common Ground power supply: (5VDC $\pm$ 10%)

Shortcircuit J1 and J2; leave J3 and J5 open.

9V DC Independent power supply: (9VDC $\pm$ 20%)

Shortcircuit J3 and J5; leave J1 and J2 open.

### **Signal Input:**

Input the signal to be measured between the IN and GND connectors.

### **Range Select:**

Select your required range by shortcircuiting the relevant jump pads.

### **Examples:**

1, Set up the meter to work as 200mV DC display.

\*Shortcircuit the DC and 200mV jump pads and leave all of the other range jumps open.

2, set up the meter to work as 200mA DC display.

\*Shortcircuit the 200mA, DC and mA jump pads and leave all the other range jumps open.

### **Decimal point and the "-" sign set up:**

Short one of the P1, P2 or P3 jumper\* for the designed decimal point position.

P1 ON to have one digit after the decimal point, P2 ON to have two digits after the decimal point

and P3 ON to have three digits after the decimal point N ON to display "-" sign.



### **Specification:**

Short one of the P1, P2, P3 jumpers to the designed decimal point position.  
 P1 ON to have one digit after the decimal point, P2 ON to have two digits after the decimal point  
 and P3 ON to have three digits after the decimal point N ON to display “-“ sign.

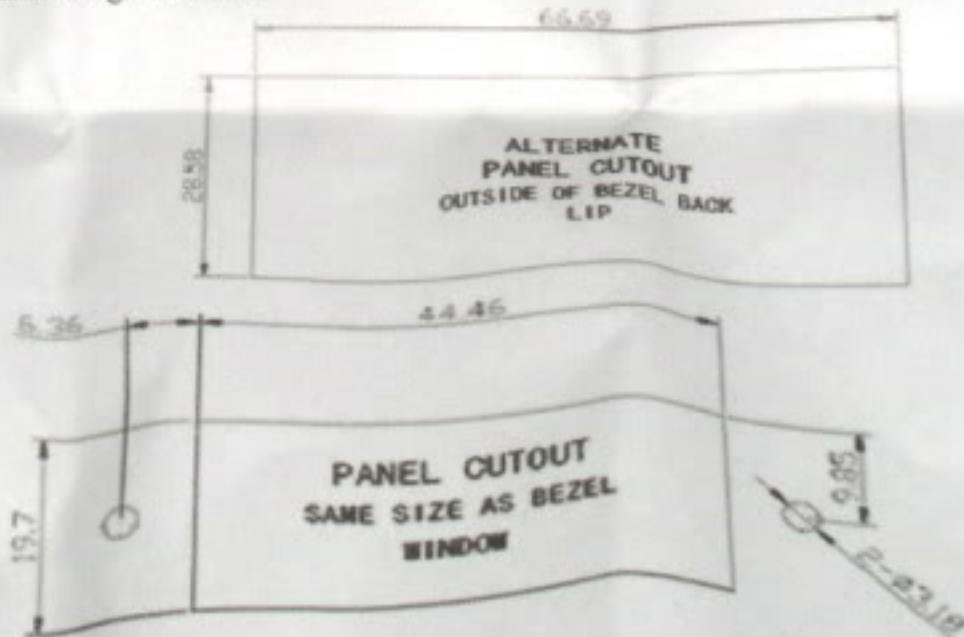
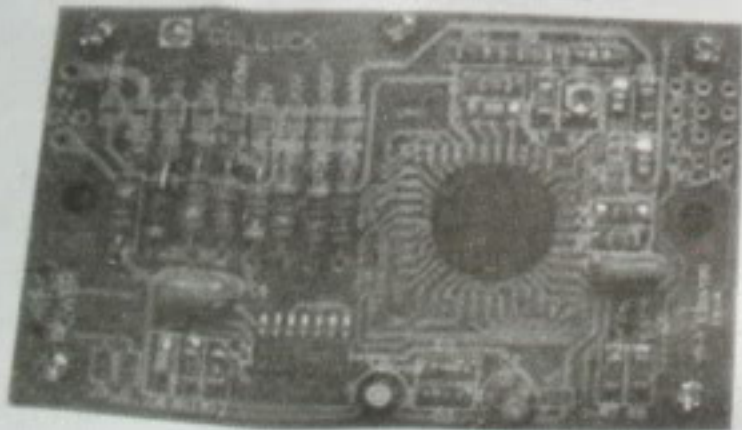
### Specification:

Function	Range	Resolution	Accuracy**
A DC	200mA	100uA	can be adjusted to $\pm(0.3\% \text{ reading} + 3.5 \text{ digits})$
V AC	200V	100mV	$\pm(2\% \text{ reading} + 3.5 \text{ digits})$
	500V	1 V	
V DC	200mV	0.1mV	$\pm(0.8\% \text{ reading} + 3.5 \text{ digits})$
	2V	1mV	
	20V	10mV	
	200V	100mV	
	500V	1V	

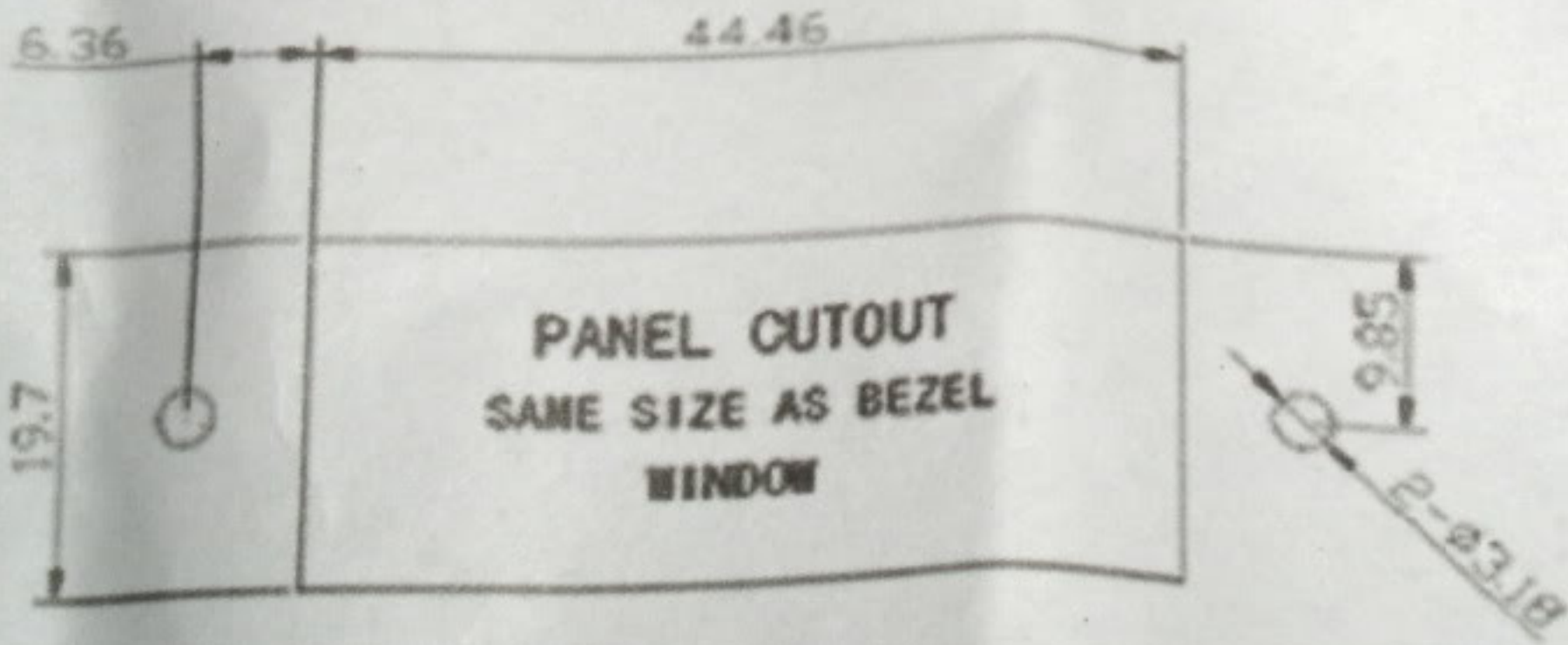
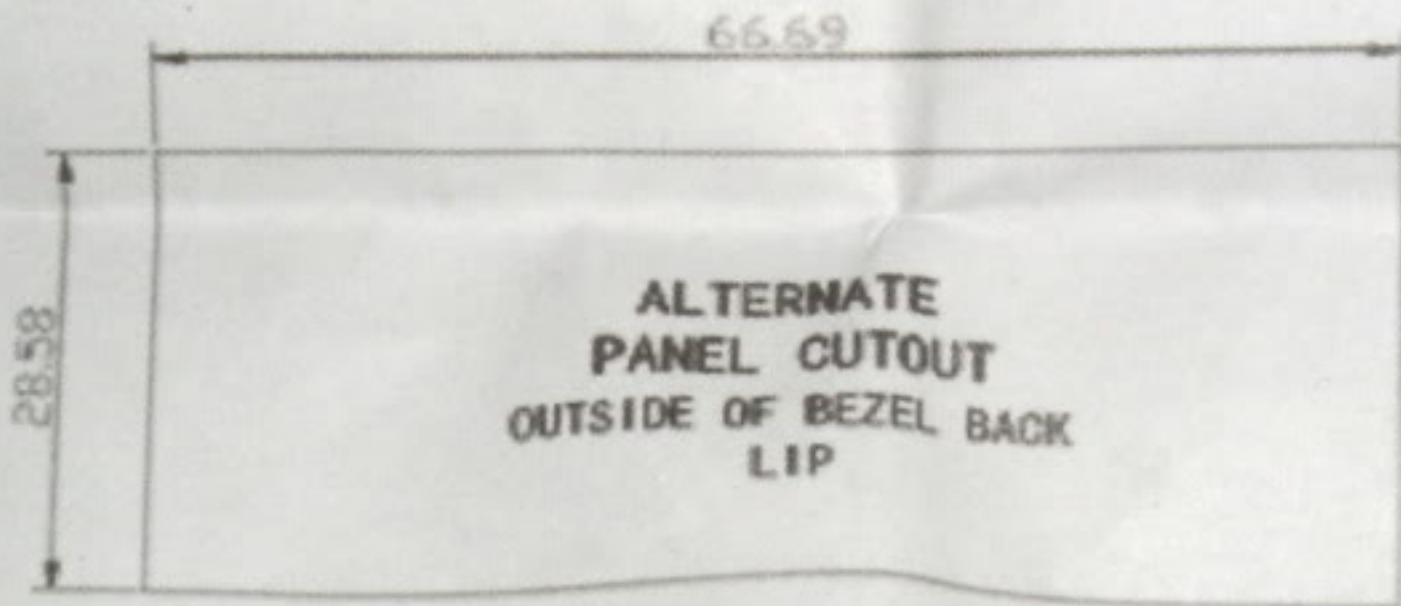
Indication Method: 1999 count LCD display automatic polarity indication.  
 Measuring Method: Dual-Slope Integration A-D converter system  
 Over-range Indication: “1” displayed  
 Sampling Rate: 2-3 sec.  
 Input Impedance: 10 Mohm  
 Power Supply: 9V independent DC or 5V common ground DC  
 Size: 68mm x 44mm

\* Refer to the diagram of PM128-E

\*\* If the meter is ordered by setting to a specific range, the accuracy can be much high.



common ground DC



2, set up the meter to work as 200mA DC display.

\*Shortcircuit the 200mA, DC and mA jump pads and leave all the other range jumps open.

### Decimal point and the "-" sign set up:

Short one of the P1, P2 or P3 jumper\* for the designed decimal point position.

P1 ON to have one digit after the decimal point, P2 ON to have two digits after the decimal point and P3 ON to have three digits after the decimal point N ON to display "-" sign.

### Specification:

Function	Range	Resolution	Accuracy**
A DC	200mA	100uA	can be adjusted to $\pm(0.3\% \text{ reading} + 3.5 \text{ digits})$
V AC	200V	100mV	
	500V	1V	$\pm(2\% \text{ reading} + 3.5 \text{ digits})$
V DC	200mV	0.1mV	$\pm(0.8\% \text{ reading} + 3.5 \text{ digits})$
	2V	1mV	
	20V	10mV	
	200V	100mV	
	500V	1V	

Indication Method: 1999 count LCD display automatic polarity indication.

Measuring Method: Dual-Slope Integration A-D converter system

Over-range Indication: "1" displayed

Sampling Rate: 2-3 sec.

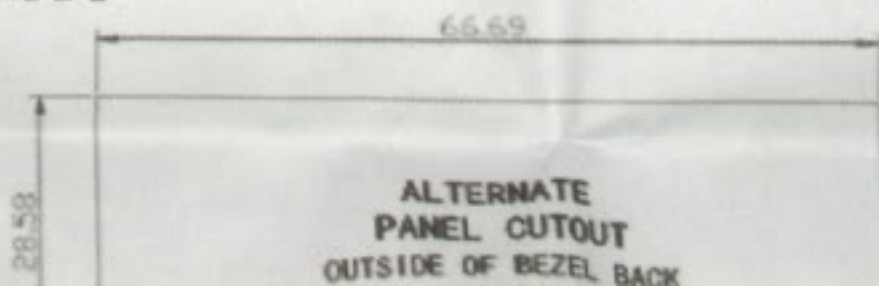
Input Impedance: 10 Mohm

Power Supply: 9V independent DC or 5V common ground DC

Size: 68mm x 44mm

\* Refer to the diagram of PM128-E

\*\* If the meter is ordered by setting to a specific range, the accuracy can be much high.



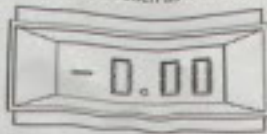


## PM 128-E Users' Manual

3-1/2 LCD DIGITAL PANEL METER (with built-in Voltage Divider and Rectifier)  
This is a very popular display unit and can be used for various applications such as Volt meter,  
Amp meter, Temperature meter and many others.

### Power Supply Select:

5V DC Constant Ground power supply: (5VDC ± 10%)  
Shortcircuit J1 and J2; leave J3 and J5 open.  
9V DC Independent power supply: (9VDC ± 10%)  
Shortcircuit J3 and J5; leave J1 and J2 open.



### Signal Input:

Input the signal to be measured between the IN and GND connectors.

### Range Select:

Select your required range by shortcircuit the relevant jump pads.

#### Examples:

- Set up the meter to work as 200mV DC display.  
\*Shortcircuit the DC and 200mV jump pads and leave all of the other range jumps open.
- Set up the meter to work as 200mA DC display.  
\*Shortcircuit the 200mA, DC and mA jump pads and leave all the other range jumps open.

### Decimal point and the "-" sign set up:

Short one of the P1, P2 or P3 jumper\* for the designed decimal point position.  
P1 ON to have one digit after the decimal point, P2 ON to have two digits after the decimal point  
and P3 ON to have three digits after the decimal point N ON to display "-" sign.

### Specification:

Function	Range	Resolution	Accuracy**
A DC	200mA	100µA	can be adjusted to ±0.5% resistance ± 3.5 digits
V AC	200V	100mV	±(2% reading + 3.5 digits)
	500V	1V	
V DC	200mV	0.1mV	±(0.8% reading + 3.5 digits)
	2V	1mV	
	20V	10mV	
	200V	100mV	
	500V	1V	

Indication Method: 1999 count LCD display automatic polarity indication.  
Measuring Method: Dual-Slope Integration A-D converter system.  
Over-range Indication: "1" displayed.  
Sampling Rate: 2-3 sec.  
Input Impedance: 10 Mohm.  
Power Supply: 9V independent DC or 5V constant ground DC.  
Size: 68mm x 44mm.

\* Refer to the diagram of PM128-E

\*\* Accuracy is achieved by setting to a specific range. The accuracy can be much high.

