

DIGITAL PANEL METERS

[3 1/2 digit, 4 1/2 digit - A/C D/C Voltage/Current](#)

[3 1/2 digit 4 1/2 digit- AC/DC Voltage/Current-TRMS](#)

[DPM U](#)

AC/DC VOLTAGE / CURRENT

3 1/2 DIGIT - MODEL : PE 3000

4 1/2 DIGIT - MODEL : PE 4500



Features :

- ♦ High performance & Precision.
- ♦ Latest LSI IC Technology.
- ♦ Auto-Polarity & Auto Zero.
- ♦ Programmable Decimal facility - optional.

PREMIER ELECTROSYSTEMS

3 & 204A, Planet Industrial Estate, Subhash Rd, Vile Parle (East), Mumbai : 400 057, INDIA

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- ◆ BCD O/P Optional.
- ◆ Dimension - full DIN optionally available Half DIN
- ◆ Hold facility - optional

DPMs For DC VOLTAGE MEASUREMENT

3 ½ Digit (PE 3000)			4 ½ Digit (PE 4500)	
Range	Reading	Accuracy**	Reading	Accuracy**
0-2mV	1.999mV	0.1%		
0-20mV	19.99mV	0.1%	19.999mV	0.1%
0-200mV	199.9mV	0.05%	199.99mV	0.01%
0-2V	1.999 V	0.05%	1.9999 V	0.01%
0-20V	19.99 V	0.1%	19.999 V	0.1%
0-200V	199.9 V	0.1%	199.99 V	0.1%
0-1 KV	1000 V	1%	1000.0 V	1%

DPMs For AC VOLTAGE MEASUREMENT

3 ½ Digit (PE 3000)			4 ½ Digit (PE 4500)	
Range	Reading	Accuracy**	Reading	Accuracy**
0-200mV	199.9mV	0.6%	199.99mV	0.6%
0-2 V	1.999mV	0.6%	1.9999 V	0.6%
0-20 V	19.99mV	0.6%	19.999 V	0.6%
0-200 V	199.9 V	0.6%	199.99 V	0.6%
0-600 V	600 V	0.6%	600.0 V	0.6%

** Accuracy \pm 1 count

DPMs For AC Current Measurement

3 ½ Digit (PE 3000)			4 ½ Digit (PE 4500)	
Range	Reading	Accuracy**	Reading	Accuracy**
0-200 μ A	199.9 μ A	0.7%	199.99 μ A	0.7%
0-2 mA	1.999 mA	0.7%	1.9999 mA	0.7%
0-20 mA	19.99 mA	0.7%	19.999 mA	0.7%
0-200 mA	199.9 mA	0.7%	199.99 mA	0.7%
0-2 A	1.999 A	0.7%	1.9999 mA	0.7%
0-20 A	19.99 A	0.7%	19.999 mA	0.7%

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DPMs For DC Current Measurement

3 ½ Digit (PE 3000)			4 ½ Digit (PE 4500)		
Range	Reading	Accuracy**	Reading	Accuracy**	
0-200 uA	199.9 uA	0.1%	199.99 uA	0.1%	
0-2 mA	1.999 mA	0.1%	1.9999 mA	0.1%	
0-20 mA	19.99 mA	0.1%	19.999 mA	0.1%	
0-200 mA	199.9 mA	0.1%	199.99 mA	0.1%	
0-2 A	1.999 A	0.1%	1.9999 mA	0.1%	
0-20 A	19.99 A	0.5%	19.999 mA	0.5%	

- Options :**
1. Dual / Tripple Range DPMs.
 2. DPMs for 4-20mA Transducers
 3. DPMs for custom-built calibration
 4. DPMS operating on other AC/DC power supplies

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AC VOLTAGE / CURRENT - TRMS**MODEL : PE 3000TR****MODEL : PE 4500TR****TECHNICAL SPECIFICATIONS**

Display	: 0.5" ht., Seven segment LED
Power	: 230 V AC \pm 10%, 50Hz
Input Impedence	: 1000 Meg ohms (Basic Ranges)
Temperature Coefficient	: 100 PPM/C
Over Load Protection	: Optionally Provided
Overflow Indication	: Blinking / Blanking of digits.
Operating Temperature	: 5°C. To 55°C.
Dimensions	: 96(W) x 96(H) x 40(D)mm ³

Features :

- ◆ High performance & Precision.
- ◆ Latest LSI IC Technology.
- ◆ Auto-Polarity & Auto Zero.
- ◆ Programmable Decimal facility - optional.
- ◆ BCD O/P Optional.
- ◆ Dimension - full DIN optionally available Half DIN
- ◆ Hold facility - optional

Accurate measurement of distorted or non sinusoidal waveform.

Crest factor: Waveform with peak to RMS ratio of 1:1 to 3:1.

Voltage readout from 5% to 100% of range.

AC Voltage-Frequency 20Hz. To 5K Hz.

All other specifications as per Model : PE 3000.s

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4 1/2 DIGIT - AC/DC VOLTAGE/CURRENT

MODEL : PE 4500



TECHNICAL SPECIFICATIONS

Display	:	0.5" ht., Seven segment LED
Power	:	230 V AC \pm 10%, 50Hz
Input Impedence	:	1000 Meg ohms (Basic Ranges)
Temperature Coefficient	:	100 PPM/C
Over Load Protection	:	Optionally Provided
Overflow Indication	:	Blinking / Blanking of digits.
Operating Temperature	:	5°C. To 55°C.
Dimensions	:	96(W) x 96(H) x 40(D)mm ³

DPM FOR DC CURRENT MEASUREMENT

4 ½ Digit (PE 4500)	
Reading	Accuracy**
199.99uA	0.1%
1.9999mA	0.1%
19.999mA	0.1%
199.99mA	0.1%
1.9999 A	0.1%
19.999 A	0.5%

DPM FOR DC CURRENT MEASUREMENT

4 ½ Digit (PE 4500)	
Reading	Accuracy**
199.99uA	0.7%
1.9999mA	0.7%
19.999mA	0.7%

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199.99mA	0.7%
1.9999 A	0.7%
19.999 A	0.1%

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PROGRAMMABLE DIGITAL PANEL METER

MODEL : PE 3000 U



PE 3000 U -A is a microcontroller based intelligent unit with Control with programmable Set Point and Hysteresis. It accepts 0-100 mV DC input and and control out put relay.

Features :

- ▶ Display of Process value from -9999 TO +9999 Units with Programmable Decimal Point.
- ▶ ON/ OFF Hysteresis Control or ON/OFF Proportional Control with Programmable Cycle Time.
- ▶ Status Indication by red LED.
- ▶ Programmable Low and High Range corresponding to 0 and 100 mV.
- ▶ Programming of all parameters by keys on Front.
- ▶ Non-volatile memory for storing parameter during Power Failure.

Specifications :

- Display** ▶ 4 digit, 0.5" ht red LED.
- Range** ▶ 0 - 100 mV.
- Lo/Hi Range** ▶ Both independently programmable form -9999 to 9999.
- Decimal Point** ▶ User programmable.
- Accuracy** ▶ 0.1% +/- 1 count

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- Setpoint** > One no – programmable by front Panel keys
- Control Action** > ON/OFF with Hysterisis or Proportional Control (selectable)
- Hysterisis** > 1 to 100 programmable
- Cycle Time** > 1 to 100 Sec
- Control Output** > (**A**) One changeover relay contact 5A/230 V AC.
(**B**) SSR driver (0-10)VDC pulse OR
(**C**) Triac 5A @ 230VAC OR
(**D**) (0-5)Volt or (4-20)mA.
- Power** > 230VAC+/-10%,50/60Hz.
- Dimensions** > 96(w) X 96(h) X 130(d) mm. Panel mounting type Panel cutout
92 (w) x 92 (h) mm.

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