PM-VAC-5R
PM-VDC-5R
PM-AAC-5R
PM-ADC-5R

Digital Multi-Range Portable Meters are ideal for continuous AC TRMS and DC measurements. These precision meters are of Class 0.5 and have a backlight display with annunciators for ease of reading. The meters can be used in horizontal, vertical or inclined position and there are no parallax errors. These are housed in a strong, compact and rugged casing with a tilt handle for ease of carrying. These are designed using advanced microcontrollers and SMT technology and there are no moving parts which could cause loss of accuracy or errors. There are 4 models, one each for A AC, A DC, V AC and V DC. Each model has 5 ranges thereby eliminating the need for having separate instrument for each range. There is overload indication and overload protection against accidental misuse. USB connectivity and user interface software is provided for ease of data handling and analysis. These Digital Multi-Range Portable Meters are most suitable for use in Laboratories, Engineering Schools/ Colleges Workshops and Field Measurements Applications for continuous use and can serve as a master standard meter for verification or re-calibration of secondary standard meters.

Features

Precision Class 0.5
TRMS Measurement
Microcontroller Design (No Moving Parts)
Backlight Display with Annunciators (No Parallax Errors)
USB Port (Standard) with User Interface Software (Under development)
Data Hold, Auto Power Off and Low Battery Indication
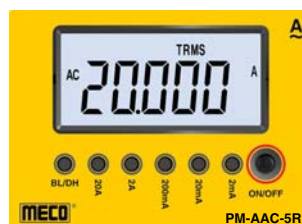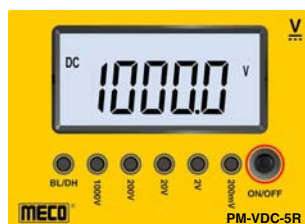Overload Indication
Strong Rugged Casing with Tilt Stand

Specification

5 Digits (Except for 750V AC)
0.0001 to 1 Count Resolution (Depending on Range)
1" / 25.4 mm Digit Display
Sampling Rate : 3 Samples / Sec
Accuracy : ± (0.5% rdg + 3 dgt)
Maximum Overload : 1.2 Times (Continuous)
Polarity Indication : " – " for Negative Input
Power : 1.5V 'AA' Battery x 4 pcs
Power : 6V DC Adaptor (Optional)
Power Consumption : < 0.2 VA
Dimension (mm) : 170 x 74 x 240 (approx.)
Weight (Including Battery) : 850 gms approx. (Ammeter)
780 gms approx. (Voltmeter)
Environment : 22 to 32°C, < 70% RH (Calibration)
0 to +50°C, < 70% RH (Operation)
-10 to +60°C, < 70% RH (Storage)

Accessories

Standard : 1.5V 'AA' Battery x 4 pcs (installed), Test Leads (Red & Black for 2A continuous) x 1 pair, Instruction Manual x 1 pc. and Spare Fuse x 2 pcs (for Ammeter Only)
Optional : Test Leads (Red & Black for 20A continuous) x 1 pair, USB Cable x 1 pc, User Interface Software x 1pc

Accuracy : ± (0.5% rdg + 3dgt)

Model	Input	Ranges	Resolution
PM-VAC-5R	AC TRMS	0 – 200mV	0.01
		0 – 2V	0.0001
		0 – 20V	0.001
		0 – 200V	0.01
		0 – 750V	0.1
PM-VDC-5R	DC	0 – 200mV	0.01
		0 – 2V	0.0001
		0 – 20V	0.001
		0 – 200V	0.01
		0 – 1000V	0.1
PM-AAC-5R	AC TRMS	0 – 2mA	0.0001
		0 – 20mA	0.001
		0 – 200mA	0.01
		0 – 2A	0.0001
		0 – 20A	0.001
PM-ADC-5R	DC	0 – 2mA	0.0001
		0 – 20mA	0.001
		0 – 200mA	0.01
		0 – 2A	0.0001
		0 – 20A	0.001

Ordering Information

Model, Test Leads (Red & Black suitable for 20A continuous) x 1 pair (Optional), USB Cable x 1 pc (Optional), User Interface Software x 1pc (Optional).