



Mahesh Electrical Instruments

MFG. : ELECTRICAL MEASURING INSTRUMENTS, VARIAC & TRANSFORMERS

ME PORTABLE METER



Plastic moulded Case



Model : MIP-/MCP-/WIEIPP/PFIEIPP

ME Portable meter can be moving coil, Moving Iron or dynamometer type and have method of indication by means of deflecting pointer only. These instruments are manufactured to meet the requirement of IS 1248/83.

CONSTRUCTION : All the instruments are manufactured by the best quality material to give satisfactory performance over a long period.

- **For AC/DC Ammeter, Voltmeter, Single Phase UPF/LPF Wattmeter and Power Factor Meters**

ME Portable meters are mounted on Plastic moulded panel fitted in **black colored plastic (ABS) moulded case** with rubber footing and rexine strap provided with anti-parallax mirror and knife-edge pointer.

- **For Three Phase 2/3 element Wattmeter, Power Factor Meter & Precision grade Meters.**

ME Portable meters are mounted on bakelite panel fitted in **Wooden case** with rubber footing and rexine strap provided with anti-parallax mirror and knife-edge pointer.

Portable Meters :

- **AC Ammeter, Voltmeter**
- **DC Ammeter, Voltmeter,**
- **Single Phase & Three Phase UPF Wattmeter (Unity Power Factor - P.F. - 1)**
- **Single Phase & Three Phase LPF Wattmeter (Low Power Factor - P.F. - 0.2 to 0.8 (any value))**
- **Single Phase & Three Phase Power Factor Meters**

Mumbai Off. : 212-A, Bhagtani Enclave, Near Anandraj Ind.Est. Off LBS Marg, Sonapur Lane, Bhandup-West, Mumbai – 400 078. Maharashtra, India.
Tel.: 022- 2566 5591 / 65238533 ♦ Telefax: 022- 2566 5592 ♦ Email: info@meinstruments.com / meinstruments@gmail.com ♦ www.meinstruments.com

Factory : A-09, Mini MIDC, Sadavali, (Devrukhi), Tal. Sangmeshwar, Dist. Ratnagiri, Maharashtra, INDIA. Tel.: 02354 240770 / 092711 58853



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The moment is fitted on the Plastic/Bakelite panel. The moment is secured between two saffire jewels. The precisely ground pivots are been used for minimizing the friction and sustain accuracy in vigorous field condition. The effective oil damping provides uniformly control torque and brings the indicating pointer to its final deflecting position without much oscillation.

All the metal parts are adequately plated to suit the tropical condition. Instruments are effectively shielded from external magnetic effects and electrostatic influences.

All the instruments have zero setting device in the front except power factor meters.

APPLICATION : ME Portable Meters are used for the measurements of the electrical quantities like current, voltage, Power (Active , Reactive) or the power factor of the network.

SPECIFICATION :

	Moving Coil	Moving Iron	Dynamometer
Principle of Working	Moving Coil	Moving Iron	Iron Free Electro Dynamometer Type
Accuracy	1.0%	1.0%	UPF - 1.0% / LPF - 1.5%
Frequency	50 Hz	50 Hz	50 Hz
Scale Length	145 mm Approx.	145 mm Approx.	145 mm Approx.
Temperature	Calibration at 27°C	Calibration at 27°C	Calibration at 27°C
Damping	Magnet	Oil	Oil
Insulation Resistance Test	Over 20 Mohms DC	Over 20 Mohms DC	Over 20 Mohms DC
H. V. Test	2 KV	2 KV	2 KV
Size In mm Approx.	220 X 190 X 110	220 X 190 X 110	220 X 190 X 110
Weight Approx.	0.900Kgs/2.000 Lbs	0.900Kgs/2.000 Lbs	1.200Kgs/2.700 Lbs
DAMPING TEST : Less than 4 seconds for the pointer to come to within 1.5% of its steady state value when a current corresponding to 2/3 of the full scale value is applied.			

- **Dimensions for 3 Phase Portable Meters (L W H) :- 295 X 220 X 245 (mm) approx.**
- **Dimensions for 1 Phase Portable LPF Wattmeters & Precision grade (Accuracy – 0.5%) meters (L W H) :- 220 X 190 X 110 (mm) approx.**

SPECIAL REQUIREMENTS : (AVAILABLE AT EXTRA COST)

- Center Zero or shifted zero instrument are available in moving coil and dynamo type meters.
- Multi range voltmeters , ammeters and wattmeters are available.
- **Precision grade instruments are available with accuracy 0.5%.**
- Magnetic shielding can be provided
- Demonstration type meters are available