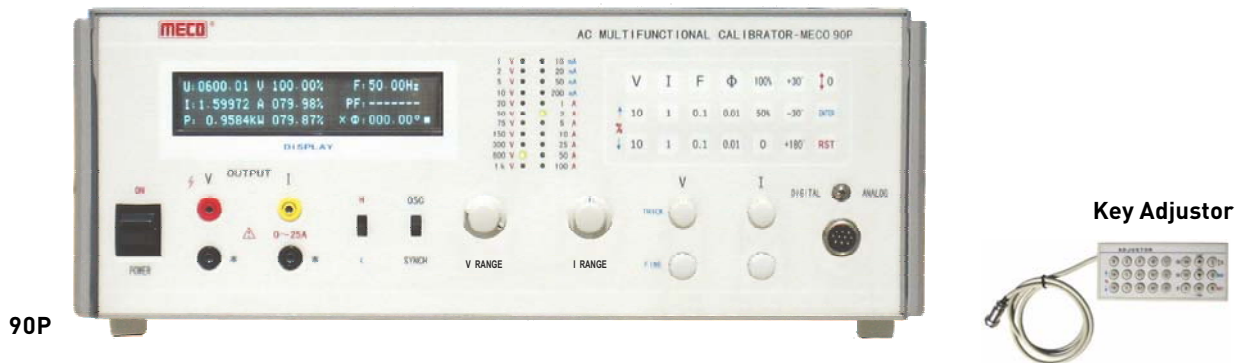




MODEL 90P AC Multifunctional Calibrator can output standard AC Voltage and AC Current. It measures AC Voltage, AC Current, Power, Phase Angle, Power Factor and Frequency (40Hz - 70Hz). Wide output range of Current and Voltage; High reliability and low wave distortion.

Applications

- Calibration of Power Meters, AC Volt, Amp, Watt, Var, Frequency, Powerfactor, Phase Angle and Energy Meters.
- Calibration of Voltage, Current, Active & Reactive Power, Frequency, Powerfactor, Phase Angle and Energy Transducers.

Standard Accessories

- 1 x Key Adjuster
- 1 x Power Cord
- 1 x Pair of Output Leads
- 1 x Pair of Output Leads (50A/100A)
- 2 x Fuse (4A)
- 1 x Data Cable for PC Connectivity
- 1 x Operation Manual

Optional Accessories

- Standard Current Coil



Turns Ratio	100 / 1	100 / 1
Input Max.	5A	10A
Current	500A	1000A
Clamp Jaw	> 20mm	> 28mm
DC Impedance	0.7Ω	0.9Ω
DC Burden	5A / 3.5V	10A / 2.5V
AC Burden	5A / 6V	10A / 5V
Frequencies	DC to 60Hz	DC to 60Hz
Accuracy	± 0.3% rdg	± 0.3% rdg

Technical Specifications

Voltage Control	Output Voltage Range :	1V, 2V, 5V, 10V, 20V, 50V, 75V, 150V, 300V, 600V, 1000V
	Min. Resolution :	0.02mV
	Basic Error :	AC V : ± (0.03 %RD + 0.02 %FS)
Current Control	Output Current Range :	10mA, 20mA, 50mA, 200mA, 1A, 2A, 5A, 10A, 25A, 50A, 100A
	Min. Resolution :	0.2μA
	Basic Error :	AC I : ± (0.03 %RD + 0.02 %FS)
Frequency Control	Frequency Range :	40Hz to 70Hz
	Frequency Error :	± 0.02 Hz
Phase Control	Resistance Range :	0 to 359.99°
	Phase Error :	± 0.05°

General Specifications

Note - RD : Reading, FS : Full Scale

- Power Range : 0 to 100kW
- Power Basic Error : ± (0.07 %RD + 0.03 %FS)
- Stability V, I : < 0.01 %FS / 2 min, P : < 0.02 %FS / 2 min
- Distortion : < 0.5 %
- Power Factor Range : -1 to +1
- Power Factor Basic Error : ± 0.001 (PF 0 to ±0.8); ±0.0005 (PF -0.8 to -1, +0.8 to +1)
- Power Supply : 230 VAC, 50 (60) Hz
- Power Consumption : < 300 VA
- Display 5½ Digit VFD Digital Display
- Operating Temperature : 5°C to 35°C
- Relative Humidity : ≤80 %
- Dimensions : 192 x 480 x 540mm (approx.)
- Total Weight : 23 kgs (approx.)



FEATURES / PARAMETERS		90A	90DQ	90P
DISPLAY	5½ Digit Display	✓	✓	✓
SYSTEM (1 PHASE)	DC	✓	✓	-
	AC	✓	✓	✓
VOLTAGE (V)	AC/DC V : (0 - 200mV to 1000V)	✓	-	-
	AC/DC V : (0 - 250mV to 1000V)	-	✓	-
	AC V : (0 - 1V to 1000V)	-	-	✓
CURRENT (A)	AC/DC A : (0 - 100µA to 20A)	✓	-	-
	AC/DC A : (0 - 100µA to 50A)	-	✓	-
	AC A : (0 - 10mA to 100A)	-	-	✓
FREQUENCY (Hz)	SYNCH	-	✓	-
	50 Hz	✓	✓	-
	60 Hz	✓	✓	-
	400 Hz	✓	✓	-
	1 KHz	-	✓	-
	40 Hz to 70 Hz	-	-	✓
RESISTANCE	10Ω to 24k x 1kΩ	✓	✓	-
PHASE ANGLE	0 to 359.99°	-	-	✓
POWER (1 PHASE)	Range : 0 to 100kW	-	-	✓
POWER FACTOR	Range : -1 to +1	-	-	✓
COMMUNICATION PORT	RS232	✓	✓	✓
KEY ADJUSTOR		✓	✓	✓
WORKS CALIBRATION CERTIFICATE TRACEABLE TO NPL		✓	✓	✓
STANDARD CURRENT COIL (OPTIONAL)	Input 5A (Max.), Turn Ratio 100 / 1	-	✓	✓
	Input 10A (Max.), Turn Ratio 100 / 1	-	✓	✓
	Input 20A (Max.), Turn Ratio 50 / 1	✓	-	-

Applications

- R & D Labs
- NABL Labs
- Educational Institutes
- Paper & Pulp Industries
- Automobile Industries
- Textile Industries
- Calibration Labs
- Chemical Process Industries
- Cement Plants
- Instrument Manufacturing Companies
- Medical Industries
- Petrochemical Industries

