

4½ Multifunction Site Calibrator

Features

- Pure Sine wave with variable frequency
- Input supply Under Voltage and Over Voltage Protection
- Overload and short circuit protection
- Setting by Decade switches for V/A in 4½ digit
- Frequency setting by multi turn potentiometer
- Selection of AC/DC parameter by toggle switch
- Selection of ranges by rotary switch
- Separate output ports used for V(Hi), mA(Hi), 10A(Hi) & Com
- Separate output ports used for R / L / C



Multifunction Calibrator is useful for the calibration of Digital Multi Meters, Clamp Meters, Digital Panel Meters, Analog Panel Meters, LCR Meters, and Non-Contact Type Tachometers.

It is a variable source with different ranges of DC Voltage, AC Voltage, DC Current, AC Current, Frequency, Resistance, Capacitance, Inductance & RPM (Non-Contact Type). It has been designed to cover the calibration of maximum ranges of a variety of models of Multi-meters available in the market.

The calibrator gives output, which is very stable. Stability is suitable enough to calibrate 3½ and 3¾ DMMs and Clamp-on Meters. By using this source along with a high-resolution standard Multimeters user can calibrate even 4½ DMM.

Technical Specifications

| | | | |
|----------------------------------|---|------------------------|-------------------------|
| Model | ZMSMFC 4.5 | | |
| Input Power Supply | 230 V AC, $\pm 5\%$ @ 50 Hz. | | |
| Input Protection | Calibrator is Protected by I/P OV (Over Voltage) & I/P UV (Under Voltage) | | |
| DC Voltage Ranges | 200mV, 2V, 20V, 200V, 1000V | | |
| AC Voltage (45Hz to 1kHz) Ranges | 200mV, 2V, 20V, 200V, 1000V | | |
| DC Current Ranges | 2mA, 20mA, 200mA, 2A, 10A | | |
| AC Current (45Hz to 1kHz) Ranges | 2mA, 20mA, 200mA, 2A, 10A | | |
| Frequency | 45Hz to 1kHz | | |
| Fixed Resistance | 1Ω, 10Ω, 100Ω, 1kΩ, 10kΩ, 100kΩ, 1MΩ, 10MΩ, 100MΩ | | |
| Fixed Inductance | 10μH, 100μH, 1mH, 10mH, 100mH | | |
| Fixed Capacitance | 1nF, 10nF, 100nF, 1μF, 10μF | | |
| RPM (Non Contact Type) | 2700 to 60,000 RPM | | |
| Display | 4½ Digit 7 segment red LED display for Voltage & Current 4 Digit 7 segment red LED display for Frequency | | |
| Accuracy @ 20°C to 28°C, RH <75% | AC Voltage & Current : $\pm 0.3\% \pm 10$ Digit | | Frequency: ± 0.1 Hz |
| | DC Voltage & Current : $\pm 0.2\% \pm 5$ Digit | | |
| | Resistance: $\pm 0.25\%$ | Capacitance: $\pm 5\%$ | Inductance: $\pm 5\%$ |
| | RPM (Non Contact Type): $\pm 0.1\%, \pm 5$ digit | | |
| Selection of AC/DC Parameters | By Toggle switch | | |
| Selection of Resistor / L / C | By Toggle switch | | |
| Selection of Ranges | By rotary selector switch | | |
| Setting of Frequency | By multi turn potentiometer | | |
| Operating Temperature | 15°C to 50°C | | |
| Power OFF Storage Temperature | 10°C to 70°C | | |
| Dimension & Weight | 400mm(W) X 400mm(D) X 170mm(H) | 20kg Approx. | |

Dimensional Details Drawing

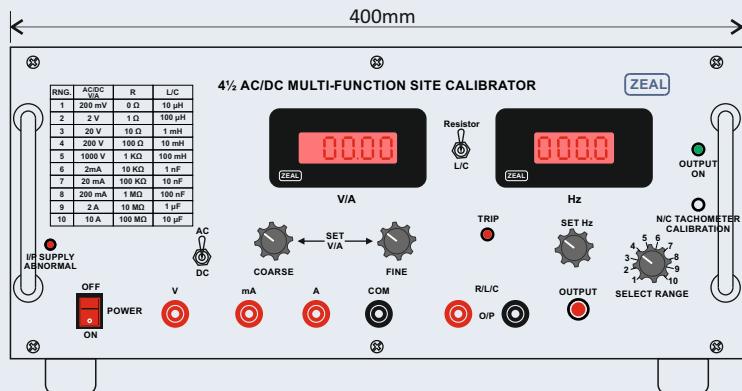


Fig.1 Front view

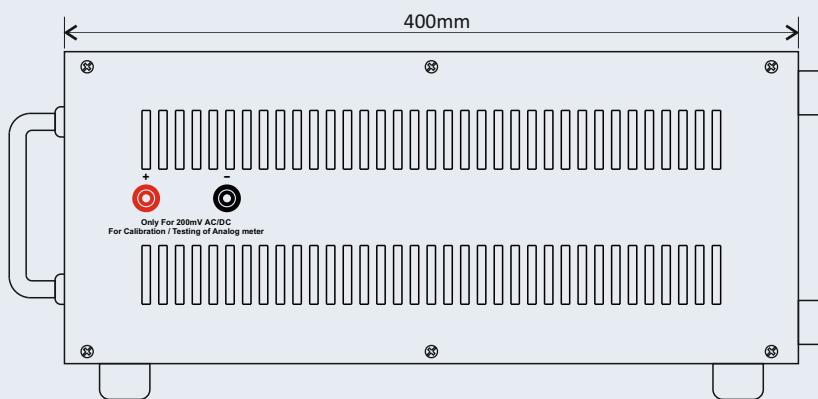


Fig.2 Side view

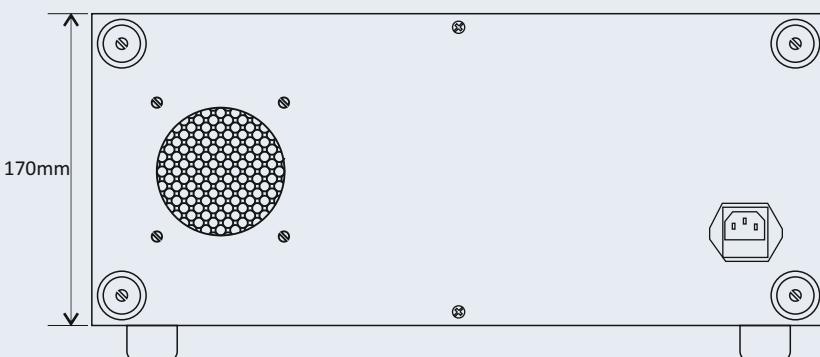


Fig.3 Rear view



ZEAL
MANUFACTURING AND CALIBRATION
SERVICES PRIVATE LIMITED
(An ISO 9001 : 2015 Company)
MFG OF TEST & MEASURING INSTRUMENTS

Factory: S.No: 78/1, Pandhari Industrial Estate, Shivane, Pune - 411023.

Mob No. : +91 9371025315 , +91 7030326565

Email: marketing@zealmfg.com, support@zealmfg.com

Laboratory: **Mob. No.:** +91 9325714841, +91 9075014802

Email : calibration@zealmfg.com, testing@zealmfg.com

Web: www.zealmfg.com

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