

5½ digit Multi-Function Calibrator

Features

- Pure Sine wave with variable frequency
- Input supply Under Voltage and Over Voltage Protection
- Overload and short circuit protection
- Frequency setting by potentiometer
- Separate output ports for V(Hi), mA(Hi), 10A(Hi) & Com
- Parameter & range selection by inbuilt micro-controller based unit and relays.
- Setting by Decade switches for V/A in 5½ digit
- Bar of LEDs to indicate parameter & range.



The Multi-Function Calibrator is useful for the calibration of Digital Multimeters, Clamp Meters, Digital Panel Meters, and Analog Panel Meters. It is a variable source with different ranges of DC Voltage, AC Voltage, DC Current, and AC Current. 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 4½ and 4¾ DMM and Clamp-on Meters. By using this source along with a high-resolution standard Multimeters user can calibrate even 5½ DMM. Calibrator has a micro controller unit, which handles all the parameter selection and range selection logic. Micro controller drives to the set of relays as per the logic program.

Technical Specifications

Model	ZMMFC 5.5	
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, 2000mA, 10A	
AC Current (45Hz to 1kHz) Ranges	2mA, 20mA, 200mA, 2000mA, 10A	
Frequency Range	45Hz to 1kHz	
Accuracy @ 20°C to 28°C, RH <75%	AC Voltage and Current : $0.15\% \pm 15$ Digit	Frequency: ± 0.1 Hz
	DC Voltage and Current : $0.10\% \pm 5$ Digit	
Temperature Coefficient/°C above 28°C	+0.01% per °C	
Operating Temperature	15°C to 50°C	
Power OFF Storage Temperature	10°C to 70°C	
Required Earth to Neutral Voltage	Less than 1 V AC	
Drift due to ageing	50 PPM per year.	
Short term stability of the set value	350 PPM	
Display	5½ Digit 7 segment red LED display for Voltage & Current	
	4 Digit 7 segment red LED display for Frequency	
Selection of AC/DC Parameters	By up and down keys and bar of LED to indicate selected parameter	
Selection of Ranges	By up and down keys and bar of LED to indicate selected range	
Setting of Voltage & Current	By decade switch	

Setting of Frequency	By multi turn Coarse & Fine potentiometer	
Frequency Range Selection	By Toggle Switch for Normal Mode: 50Hz to 1 kHz & Filter Mode: 45 Hz to 60 Hz	
Selection of Mode	By Toggle Switch for Normal Mode & Over Burden (X 100 Coil mode)	
Dimension & Weight	550mm(W) X 550mm(D) X 170mm(H)	25kg Approx.

Dimensional Details Drawing

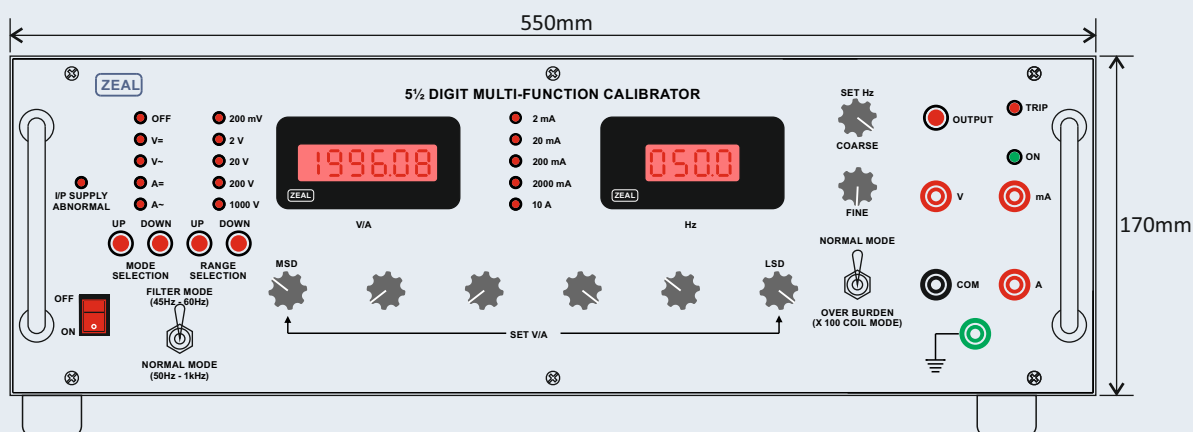


Fig.1 Front view

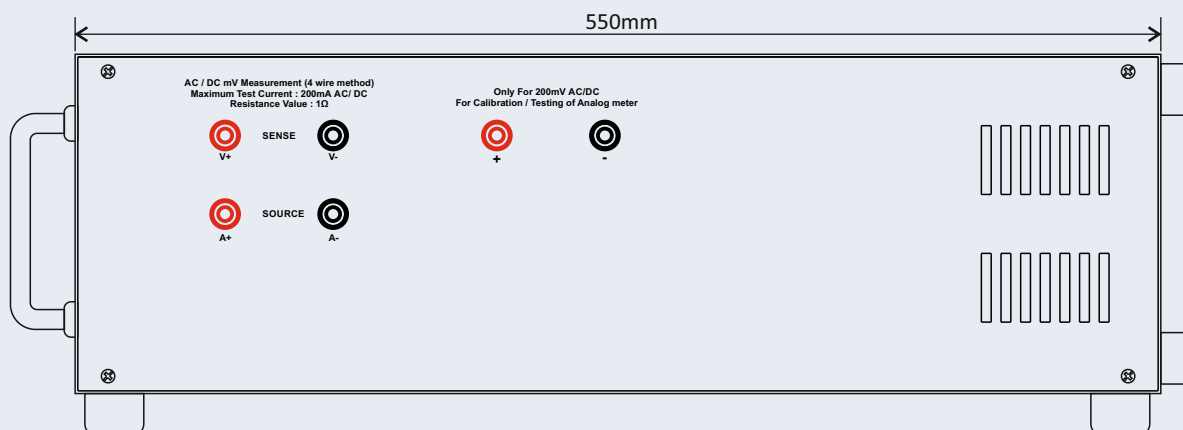


Fig.2 Side view