

5½ Digit Multi-Function Calibrator

Features

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

Technical Specifications

Model	ZMMFC 5.5.1		
Input Power Supply	230 V AC @ 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 1000Hz) Ranges	200mV, 2V, 20V, 200V, 1000V		
DC Current Ranges	2mA, 20mA, 200mA, 2000mA, 20A		
AC Current (45Hz to 1000Hz) Ranges	2mA, 20mA, 200mA, 2000mA, 20A		
Frequency Range	45Hz to 1000Hz		
Accuracy @ 20°C to 28°C, RH <75%	AC Voltage: 0.15% ± 15 Digit	DC Voltage: 0.1% ± 5 Digit	Frequency: ± 0.1 Hz
	AC Current: 0.2% ± 15 Digit	DC Current: 0.2% ± 5 Digit	
Operating Temperature	10°C to 40°C		
Power OFF Storage Temperature	5°C to 70°C		
Required Earth to Neutral	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 potentiometer		
Dimension & Weight	550mm(W) X 600mm(D) X 170mm(H)	32kg Approx.	

Note : Accuracies specified at 25 deg C, RH <75%, basic accuracy ±10 digits for DC parameters & basic accuracy ±15 digits for AC parameters.

Dimensional Details Drawing

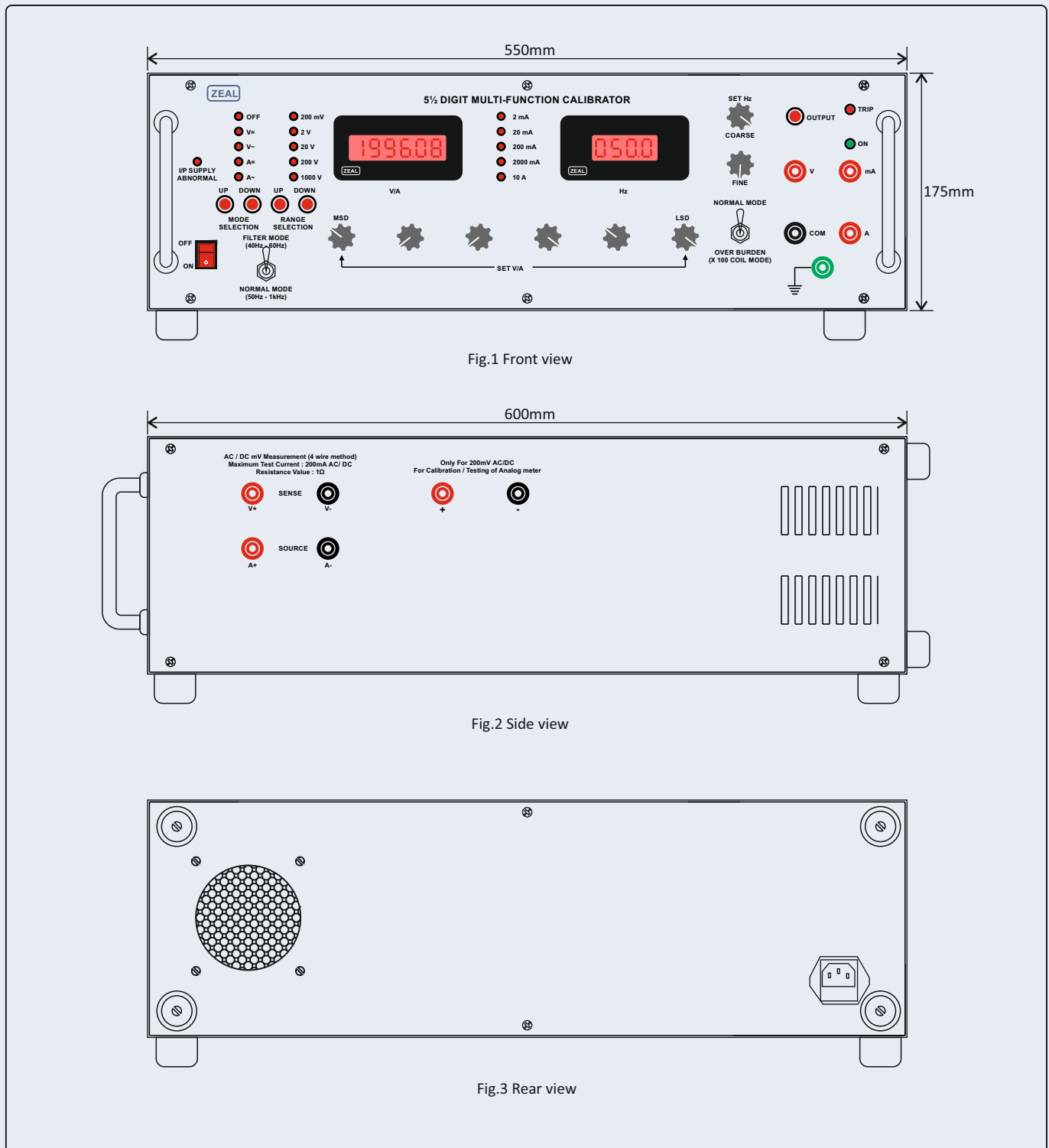


Fig.1 Front view

Fig.2 Side view

Fig.3 Rear view