

CM5094

3 3/4 Digits Auto Range Multimeter with 32 segment bar graph and Temperature Measurement

Features:

- 3 3/4 Digits LCD display with bar graph
- Max. reading 3260
- Backlight
- Auto AC/DC selection
- Manual range selected
- Auto power off with beeper alert
- DC voltage 320mV up to 600V
- AC voltage 3.2V up to 600V
- DC current 320 μ A up to 10A (fused)
- AC current 320 μ A up to 10A (fused)
- Resistance 320 Ω up to 30M Ω
- Diode test
- Continuity test
- Data hold
- Add on clamp function
- Temperature measurement ($^{\circ}$ C)
- Low battery warning display
- All ranges 600volt overload protection
- Wrong terminal inserting warning beeper
- Double injection case design
- Conform to IEC1010/EN61010
CAT III 600V, CE-EMC & LVD



General Specifications

Display	: 3 3/4 digits LCD with max. reading of 3260 and 32 segment bar graph.
Polarity	: Automatic, (-) negative polarity indication.
Zero adjustment	: Automatic.
Over range indication	: Only the MSD "OL" is displayed.
Power	: 2 x standard 1.5volt AAA batteries.
Dimension	: 93 (W) x 194 (H) x 39.4 (D) mm.
Weight	: Approx. 400 g (including battery).

Electrical Specification

Accuracies are \pm (% of reading + number of least significant digits) at $23^{\circ}\text{C}\pm 5^{\circ}\text{C}$, less than 75%RH

DC voltage measurement

Range	Resolution	Accuracy	Input impedance	Overload protection
320mV	0.1mV	$\pm(0.8\% \text{Read.} + 2\text{dgt})$	2M Ω	600Vrms \leq 10s
3.2V	0.001V	$\pm(1.2\% \text{Read.} + 2\text{dgt})$		
32V	0.01V			
320V	0.1V			
600V	1V			

AC voltage measurement

Range (*)	Resolution	Accuracy	Input impedance	Overload protection
3.2V	0.001V	$\pm(1.2\% \text{Read.} + 5\text{dgt})$	2M Ω	600Vrms \leq 10s
32V	0.01V			
320V	0.1V			
600V	1V			

(*) The instrument doesn't perform the measurement if detect DC components.

Frequency Range: 50 – 400Hz

DC current measurement

Range	Resolution	Accuracy	Voltage drop	Overload protection
320 μ A	0.1 μ A	$\pm(1.5\% \text{Read.} + 2\text{dgt})$	163mV	Fuse 400mA/600V Rapid
3.2mA	1 μ A			
32mA	0.01mA			
320mA	0.1mA	$\pm(2.5\% \text{Read.} + 2\text{dgt})$		Fuse 10A/600V Rapid
10A	0.01A			



AC current measurement

Range	Resolution	Accuracy	Voltage drop	Overload protection
320μA	0.1μA	±(1.5%Read. + 5dgt)	163mV	Fuse 400mA/600V Rapid
3200μA	1μA			
32mA	0.01mA			
320mA	0.1mA			
10A	0.01A	±(2.5%Read. + 5dgt)		Fuse 10A/600V Rapid

Resistance measurement

Range	Resolution	Accuracy	Max open circuit voltage	Overload protection
320Ω	0.1Ω	±(1.2%Read + 5dgt)	≤ 1.5V	600Vrms ≤10s
3.2kΩ	0.001kΩ			
32kΩ	0.01kΩ			
320kΩ	0.1kΩ			
3.2MΩ	0.001MΩ			
30MΩ	0.01MΩ	±(3.5%Read + 5dgt)		

Diode test

Range	Test voltage	Test current	Max open circuit voltage	Overload protection
	0 – 3.2V	Approx. 1mA	3.0V	600Vrms ≤10s

Continuity test

Range	Test Range	Test current	Max open circuit voltage	Overload protection
	Buzzer sounds when resistance value ≤ 20Ω	Approx. 1mA	≤ 1.2 V	600Vrms ≤10s



Temperature measurement

Range	Resolution	Accuracy	Overload protection
-40 ÷ 0°C	1°C	±(2.0%Read. + 5dgt)	600Vrms ≤10s
0 ÷ 320°C		±(1.5%Read. + 10dgt)	
320 ÷ 800°C		±(2.0%Read. + 10dgt)	

CALTEK INDUSTRIAL (HONG KONG) LIMITED

www.caltek.com.hk

Hong Kong Office

Address: Unit 11 10/F, Kwai Cheong Center, 50 Kwai Cheong Road, Kwai Chung, N.T., Hong Kong
Email: caltek@caltek.com.hk Tel: (852) 2401-1222 Fax: (852) 2420-3472

Singapore Office

Level 15, Suite 27, Prudential Tower, 30 Cecil Street, Singapore 049712

Email: caltek_sg@caltek.com.hk Tel: (65) 6232-2903 Fax: (65) 6232-2888