



## INTRODUCTION

MC38D is an integrated motor checking instrument. It is newly designed with a combination of large scale integrated and digital circuits. This instrument can measure the parameters of Insulation Resistance, DC Resistance, Inductance, etc. And it has other features such as high accuracy, stable performance as well as more convenient and reliable operations.

## SAFETY WORKING RULES

This instrument strictly complies with the safety requirements for electronic measuring instrument and IEC 61010-1 safety standard during design and manufacturing. It complies with the safety standards for double insulated voltage standard CAT III 600V and contamination level II.

## TECHNICAL SPECIFICATIONS

Technical Specifications

Error Limit:  $\pm(a\% \text{ reading} + \text{number value})$ , warranty period of one year.

Environmental Temperature:  $(23 \pm 5)^\circ\text{C}$

Environmental Humidity: 45% ~ 75%

\*Technical Specifications & Appearance are subject to change without prior notice

**Insulated Resistance Measurement**

Insulation Resistance Stall MΩ	500V	20MΩ	0.01MΩ	± (2%+15)	Output Voltage is 500V (measurement range is from 1M to 199.9M)
		200MΩ	0.1MΩ		Output Voltage is 1000V (measurement range is from 1M to 1999M)
	1000V	20MΩ	0.01MΩ		
		200MΩ	0.1MΩ		
Output Voltage	500V			±10%	Insulation resistance measures voltage
	1000V			±10%	

**DC Resistance Measurement**

Resistance Ω	200mΩ	0.1mΩ	For Reference Only	Open Circuit Voltage is about 5.0V
	2Ω	0.001Ω	± (2%+20)	
	20Ω	0.01Ω	± (1%+10)	
	200Ω	0.1Ω		

**Inductance Measurement**

Inductance Lx	2.000mH	0.001mH	± (1.5%+20)	Open Circuit Voltage is about 5.0V
	20.00mH	0.01mH		
	200.0mH	0.1mH		
	2.000H	0.001H	± (3%+20)	

**GENERAL SPECIFICATIONS**

- Display : 3-1/2 Digits Backlit LCD, the max reading is 1999.
- Low Battery Warning : battery figure
- Auto Range Function
- Data Hold to Freeze the Displayed Data
- Backlight function is convenient for working under dark light
- Red Warning Light
- Auto Shutdown Function (10 minutes)
- Working Condition : 0° ~ 35°, relative humidity is 75% or less than it, altitude is 2000 meters.
- Storage Condition : -20° ~ 60°, relative humidity is 80% or less than it.
- Outer Size : 150mm(L) X 100mm(W) X 71mm(D)
- Power Supply : alkaline battery of 1.5V (No.5) x 6
- Weight : 0.5 kg (including batteries)
- Accessories : Testing Leads, user manual, carry bag, Shoulder strap.

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