

DATA SHEET

MANUAL RANGE MULTIMETER MS8221A/ MS8221B/ MS8221D

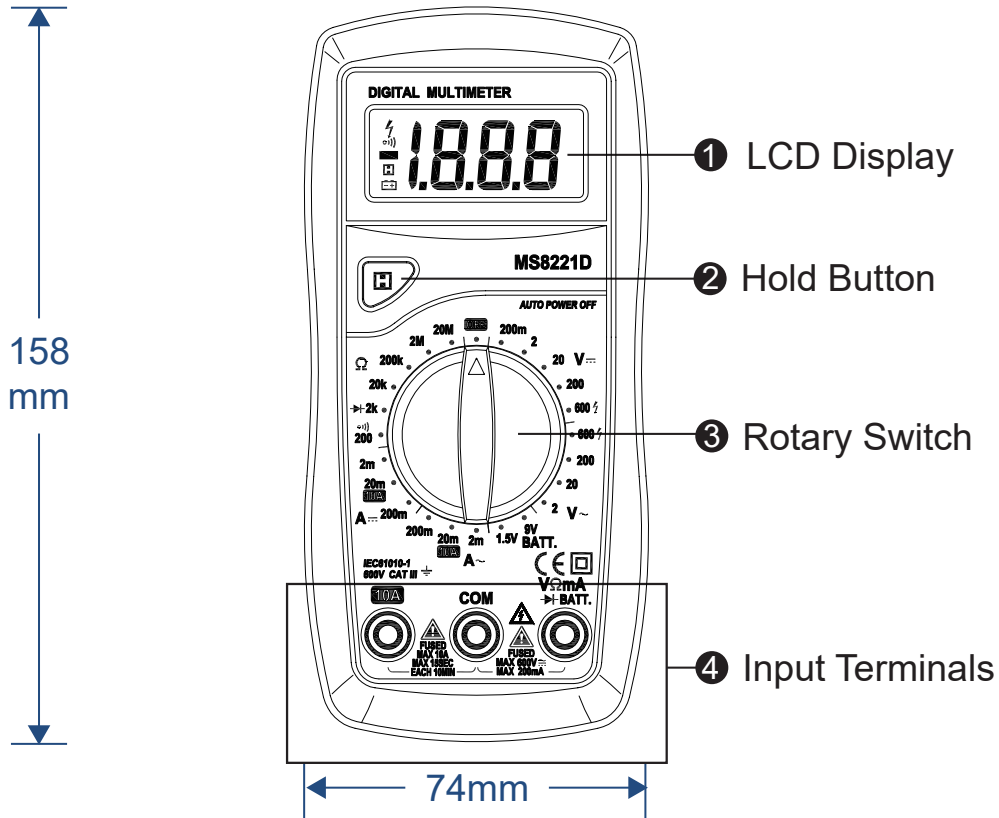
PRODUCT HIGHLIGHTS



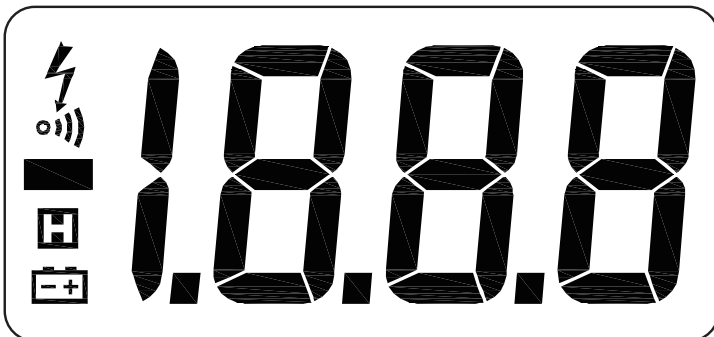
- 1999 Counts Portable Digital Multimeter
- Voltage Measurement up to 600V AC/ DC
- Current Measurement up to 10A AC/ DC
- Resistance Measurement up to 20MΩ
- Diode Test
- Continuity & Buzzer Indication
- Data Hold
- Low Battery Indication
- Auto Power Off
- Battery Test (Model Dependent)
- hFE Transistor (Model Dependent)
- Battery 9V (6F22) x 1



1. PANEL AND CONSTRUCTURE



2. LCD AND SYMBOL



- Display/ char. height: 7-segment characters/ 15 mm
- Number of digits: 3½ / 1999 steps
- Overflow display: "1" is displayed
- Polarity display:
 - "_" (minus sign) is displayed if plus pole is connected to "⊥"
- Sample rate: 2-3 times/ sec for digital data

3. MANUAL RANGE MULTIMETER SELECTION GUIDE

	MS8221A	MS8221B	MS8221D
DC Voltage	0.2V/ 2V/ 20V/ 200V/ 600V±(0.8%+2)		
AC Voltage	2V/ 20V/ 200V/ 600V±(1.2%+3)		
DC Current	2000µA/ 2mA/ 20mA/ 200mA/ 10A±(2.0%+5)		
AC Current	2mA/ 20mA/ 200mA/ 10A±(3.0%+7)		
Resistance	200Ω/ 2kΩ/ 20kΩ/ 200kΩ/ 2MΩ/ 20MΩ±(1.0%+2)		
Capacitance	-		
Frequency	-		
Temperature	-		
Display Counts	1999		
Safety Rating	CAT III 600V		
LCD Size	46 x 19 mm		
Continuity Buzzer	●		
Diode Test	●		
Data Hold	●		
Low Power Indication	●		
Auto Power Off	●		
Supportive Stand	●		
Battery Test	-	-	1.5V/ 9V
hFE Transistor	-	●	-
Power	9V battery (6F22) x 1		
Size	158 x 74 x 40 mm		
Weight	~178g (without battery)		

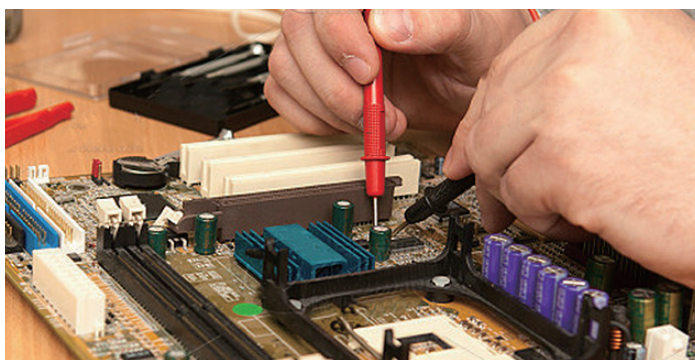
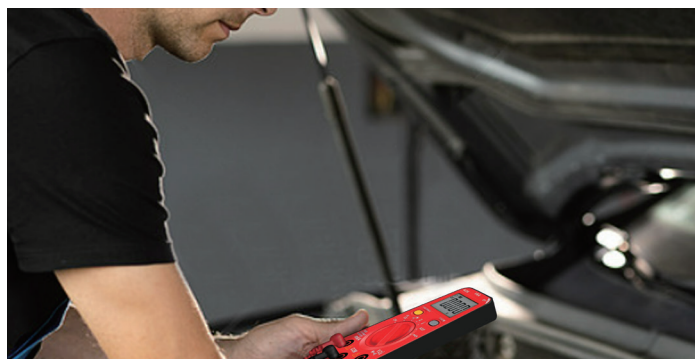
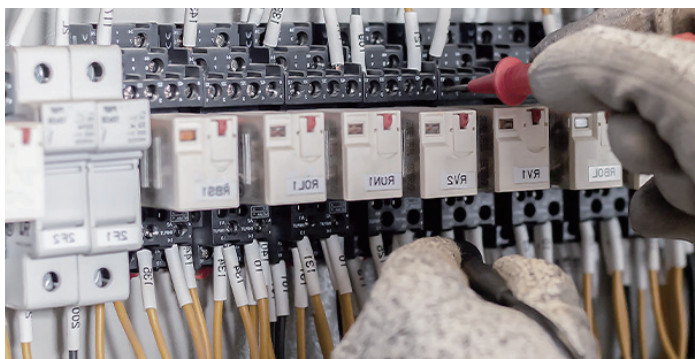
4. GENERAL SPECIFICATIONS

Function	Value
Electrical protection class	CAT III 600 V
Pollution degree	2
Operating altitude	< 2000 m
Operating temperature/ humidity	0°C~40°C, 32°F~104°F (<80% RH, <10°C non-condensing)
Storage temperature/ humidity	-10°C~50°C, 14°F~122°F (<80% RH, battery removed)
Typical temperature coefficient	0.1 x (specified accuracy) / °C (<18°C or >28°C)
Low battery indicator	The "⎓" is displayed when the battery is under the proper operation range
EMC	EN 61326-1
Safety LVD	EN 61010-1 EN 61010-031 EN 61010-033
Fuse	mA: F 250mA/ 600V Ø6.3x32 10A: 10A/ 600V Ø6.3x32
Power supply	9V (6F22) x 1
Dimension/ weight	158(L) x 74(W) x 40(H) mm/ Approx 178g (without battery)

5. SCOPE OF SUPPLY

Model Number	Scope of Supply	Quantity
MS8221A/ MS8221B/ MS8221D	Digital Multimeter	1 Piece
	Test Leads	1 Set
	User Manual	1 Piece
	Battery 9V (6F22)	1 Piece
	Box	1 Piece

6. APPLICATIONS



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