DATA SHEET

MANUAL RANGE MULTIMETER
– MAS830L

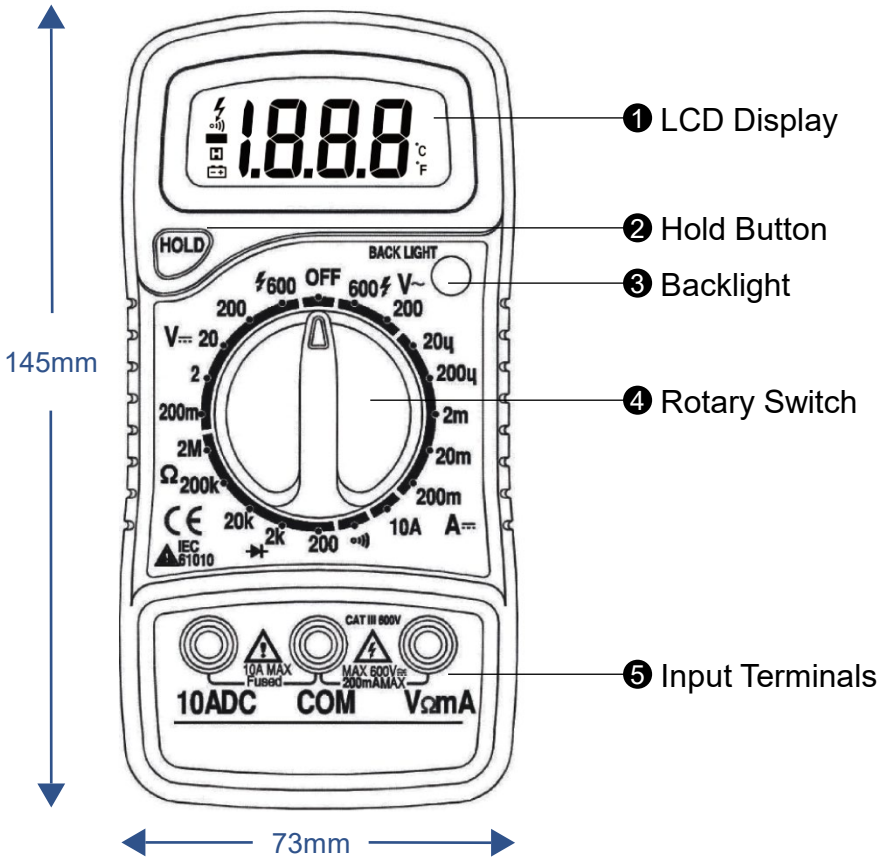
PRODUCT HIGHLIGHTS



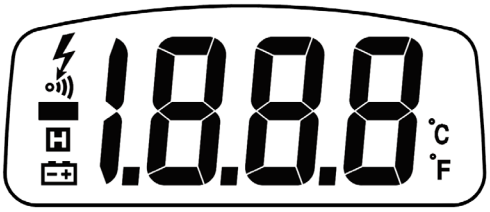
- 1999 Counts Digital Multimeter
- Voltage Measurement up to 600V AC/DC
- Current Measurement up to 10A DC
- Resistance Measurement up to 2MΩ
- Continuity Buzzer
- Diode Test
- Data Hold
- Low Battery Indication
- MAS830L Backlight (auto-off ~5 s)
- Battery 9V (6F22) x1

V≅ A⎓ Ω HOLD 6F22x1

1. PANEL AND CONSTRUCTURE



2. LCD AND SYMBOL



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

3. TECHNICAL SPECIFICATIONS

	MAS830	MAS830B	MAS830L	MAS838
DC Voltage	200mV/2V/20V/200V/600V ± (0.8%+2)			
AC Voltage	200V/600V ± (1.2%+10)			
DC Current	20μA/200μA/2mA/20mA/200mA/10A ± (3.0%+2)			200μA/2mA/20mA 200mA/10A ± (3.0%+2)
AC Current	○			
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ ± (1.0%+2)			
Capacitance	○			
Frequency	○			
Temperature	○			-20° C~1000° C ± 2.0%
Display Counts	1999			
Safety Rating	CAT III 600V			
LCD Size	46 x 19mm			
Continuity Buzzer	●	○	●	●
Diode Test	●	●	●	●
Data Hold	●	●	●	●
Low Battery Indication	●	●	●	●
Backlight	○	○	●	○
Supportive Stand	●	●	●	●
Power	Battery 9V (6F22)x1			
Size	145 x 73 x38mm			
Weight	~240g (without battery)			

MAS830L: continuity buzzer at R < 40 Ω. 10 A measurement: max. 15 s every 10 min.

4. GENERAL SPECIFICATIONS

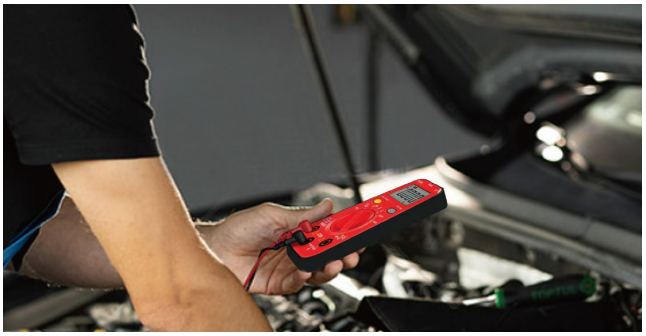
Function	Value
Electrical Protection Class	CAT III 600V
Pollution Degree	2
Operating Altitude	<2000m
Operating Temperature/Humidity	0° C~40° C, 32° F~104° F (<80%RH, non-condensing)
Storage Temperature/Humidity	-10° C~50° C, 14° F~140° F (<80%RH, battery removed)
Typical Temperature Coefficient	0.1x (specified accuracy) / ° C (<18° C or >28° C)
Low Battery Indicator	Battery is low
EMC	EN 61326-1
Safety LVD	EN 61010-1, EN 61010-031, EN 61010-033
Fuse	Fuse 1: F 250mA/600V Fuse 2: F 10A/600V
Power Supply	Battery 9V (6F22) x1
Dimension/Weight	145(L) x 73(W) x 38(H) mm / Approx 240g (without battery)

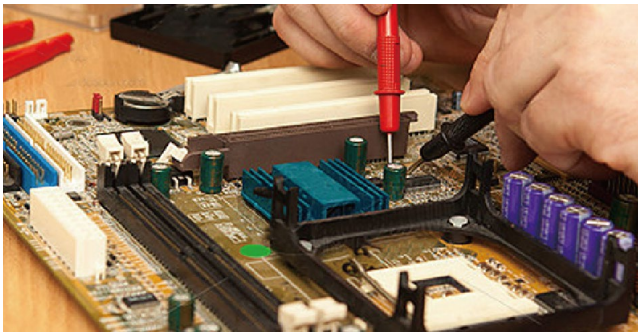
5. SCOPE OF SUPPLY

Model Number	Scope of Supply	Quantity
MAS830L	Digital Multimeter	1 Piece
	Test Leads	1 Set
	User Manual	1 Piece
	Battery 9V (6F22)	not included
	Box	1 Piece

6. APPLICATIONS









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*Datasheet subject to change without notice