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ANALOGUE MULTIMETER 5050E

GENERAL SPECIFICATIONS

Over-voltage category: CAT II 1,000V, CAT III 500V to ground potential.
Standard Environment: 23ºC±3ºC, less than 75% RH.
Temperature Ranges: 0ºC to 40ºC, 32ºF to 104ºF for Operating condition.
-10ºC to 50ºC, 14ºF to 122ºF for Storage condition.
Humidity Scope: Operating condition less than 90% RH.
Storage condition: less than 80% RH.
Operating Altitude: Max. 2,000 m
Size: 158(W)x 103(D)x 38(H) mm including Holster
Weight: 490g approx. (including batteries & Holster)
Accessories: One set of 1000V/10A class Test Leads;
Safety ceramic-tube Fuse 0.5A/1000V 1pc on PCBA;
Safety ceramic-tube Fuse 10A/1,000V 1pc on PCBA

TECHNICAL SPECIFICATIONS

Test Functions	Range	Accuracy	Remarks
DC V	0-0.05-0.5-2.5-10-50-250V	± 4% of FSD. at 0.05V range	Input Impendence: 10MΩ
	-1000V	± 3% of FSD. at other ranges	Overload Protection: Max. 1000V AC/DC BUT Range 0.05V/0.5V: Max. 250V
AC V **(True RMS value)**	0-0.05-0.5-2.5-10-50-250V, -1000V	± 4% of FSD. **Band width: 40 ~ 400 Hz** **NOTE #1**	Input Impendence: 10MΩ Overload Protection: Max.1000Vrms AC/DC. BUT Range 0.05V: Max. 250V
DC A	0-0.01-0.05-0.25-2.5-25mA -250mA-10A	± 3%of FSD. ± 4% of FSD. For 10A range **NOTE #2**	Drop Voltage: 50 mV Overload protected by two Fuses 0.5A/1000V(for mA ranges) and 10A/1000V.
AC A **(True RMS value)**	0-0.01-0.05-0.25-2.5-25mA -250mA -10A	± 4% of FSD. **Band width: 40 ~ 1,000 Hz**	Drop Voltage: 50 mV Overload protected by two Fuses 0.5A/1000V (for mA ranges) and
Ω	X 1: 0.2 ~ 2KΩ Midscale at 20Ω X 10: 2 ~ 20KΩ Midscale at 200Ω X 100: 20 ~ 200KΩ Midscale at 2000Ω X1K: 200~ 2MΩ Midscale at 20KΩ X10K: 2K ~ 20MΩ Midscale at 200KΩ X100K: 20K~200M ohm, Midscale at 2000K ohm X1M: 200K~2000M ohm, Midscale at 20M ohm	NOTE #1 & #2 **± of ARC (Scale Length)**	10A/1000V. Overload protected by the Oxide Varactor & Fuse. The Input Voltage limit: Min.50V, Max. 250Vrms AC/DC.

TECHNICAL SPECIFICATIONS

Test Functions	Range	Accuracy	Remarks
Frequency	0.25-2.5K-25K Hz	± 3 % of FSD.	Input Voltage Scope: 2.5V ~ 250V. But Max. 10V at 2.5/25k Hz ranges
Transistor Check	hFE: 0-1000	Not Specified	At Ω X 10 Range
Diode Check	IF, IR, LI, LV	Not Specified Note#3	At Ω X 10 Range
Continuity Check	Beeper sounding	< 200 Ohm	Overload protected by Oxide Varactor. Input Voltage Limit: Min. 50V, Max.250V AC/DC(5s).
POWER Supply	Internal Battery:R6P, AA, 1.5V 2pcs, 6F22, NEDA1604, 9V 1pc		

Note#1: RMS Conversion with Signal Crest Factor of 1 to 3 for ACV/ACA testing in case of non-sine waveform. Additional error 2% shall be counted when the crest factor 3 to 5 max. The Crest Factor is defined as Vp/Vrms.

Note#2: For 10A range, the big current loaded max. 1min. with 15 min pause.

Note#3: For Diode test, the Max. current is 0.15 μA in the x1M range; the Max. current is 1.5 μA in the x100k range; and Max. 15 μA in the x10k range; and Max. 0.15 mA in the x1k range; and Max. 15 mA in the x10 range; and Max. 150 mA in the x1 range.