Apiab TRUE RMS DMM 1003



Description

APLAB's Digital Multimeters Model 1003 are general purpose versatile instruments that makes accurate AC/DC voltage, AC/DC current, resistance and dB measurements.

The instruments are light in weight, portable and with table top design. Being highly reliable & drift free performance make these instruments to be used in test laboratories, service centers, educational institutes & on production floor.

Features

- 3½ Digits (2000 Counts FS) Display
- 0.1% Basic DC Accuracy
- Auto Zero & Auto Polarity
- Built-in Overload Protection
- Continuity Test Facility
- dB Measurement
- Solid State Protection for Resistance Mode
- Diode Test Facility

Technical Specifications

DC VOLTAGE

Range	Resolution	I/P Imp.	Max I/P	Accuracy
200mV, 2V	100μV, 1mV	100M ohms	300V	± (0.1% of rdg +1 digit)
20V, 200V & 1000V	10mV, 100mV 1V	10M ohms	1000V	± (0.1% of rdg +1 digit)

AC VOLTAGE

Range	Resolution	Max I/P	I/P Imp	Freq.	Accuracy
200mV, 2V	100μV, 1mV	250V	>10M ohms	40Hz to 1KHz 1KHz to 20KHz 20KHz to 100KHz	±(0.3% rdg +0.1% of range +1 digit) ±(1% rdg +0.1% of range +1 digit) ±(5% rdg +0.1% of range +1 digit)
20V, 200V	10mV, 100mV	500V	>10M ohms	40Hz to 1KHz 1KHz to 20KHz 20KHz to 100KHz	$\pm (0.3\% \text{ rdg} +0.1\% \text{ of range } +1 \text{ digit})$ $\pm (1\% \text{ rdg} +0.1\% \text{ of range } +1 \text{ digit})$ $\pm (5\% \text{ rdg} +0.1\% \text{ of range } +1 \text{ digit})$
500V	1V	500V	>10M ohms	40Hz to 60Hz	±(1% rdg +0.5% of range +1 digit)

DC CURRENT

Range Resolution		Shunt Drop	Overload Protection	Accuracy
200µA, 2mA 20mA, 200mA	0.1μΑ, 1μΑ 10μΑ, 100μΑ	0.2V FS	1A, 250V	±(0.3% rdg +1 digit)
1000mA 1mA		0.1V FS	1A, 250V	±(1% rdg +1 digit)

AC CURRENT

Range	Resolution	Shunt Drop	Overload Protection	Freq.	Accuracy
200µA, 2mA, 20mA, 200mA	0.1μA, 1μA 10μA, 100μA	0.2V FS	1A, 250V	40Hz to 1KHz 1KHz to 20KHz 20KHz to 100KHz	$\pm (0.5\% \text{ of rdg } +0.1\% \text{ of range } +1 \text{ digit})$ $\pm (1.0\% \text{ of rdg } +0.1\% \text{ of range } +1 \text{ digit})$ $\pm (5.0\% \text{ of rdg } +0.1\% \text{ of range } +1 \text{ digit})$
1000mA	1mA	0.1V FS	1A, 250V	40Hz to 1KHz 1KHz to 10KHz	±(1.0% of rdg +0.1% of range +1 digit) ±(3.0% of rdg +1.0% of range +1 digit)

RESISTANCE

Range	Resolution	Overload Protection	Accuracy	
200 ohms	0.1 ohms	250V rms	±(0.2% of rdg +1 digit)	
2K ohms	1 ohms	250V rms	±(0.2% of rdg +1 digit)	
20K ohms	10 ohms	250V rms	±(0.2% of rdg +1 digit)	
200K ohms	100 ohms	250V rms	±(0.2% of rdg +1 digit)	
2M ohms	1K ohms	250V rms	±(0.5% of rdg +1 digit)	
20M ohms	10K ohms	250V rms	±(1.0% of rdg +1 digit)	

dB MEASUREMENT

Pango	Resolution	Overload Protection	Accuracy		
Range	Range Resolution		40Hz - 4KHz	4KHz - 40KHz	40KHz - 100KHz
+20dB to +10dB)	250V AC/DC	±1dB	±1dB	±1.5dB
+10dB to -20dB	0.440		±0.5dB	±1dB	±1.5dB
-20dB to -40dB	0.1dB		±0.5dB	±1.5dB	_
-40dB to -50dB	IJ		±1dB	±3dB	_

OdB REFERENCE: 1MW in 600 ohms i.e. 0.775V in 600 ohms.

Note: All units are calibrated to 600 ohms reference, however on special request the unit will be calibrated to required reference.

GENERAL SPECIFICATIONS

Display : 3½ digit 0.5" LED. Warmup Time : 10 minutes.

Power : 230V AC ±10%, 47-53Hz.

Optional 115V AC ±10%, 57-63Hz.

Weight : 3 Kg. (approx).

Dimensions : 270 (W) x 88 (H) x 310 (D) mm (approx).

Standard Accessories : Instruction Manual - 1 No.

SP1 to Alligator Clip (Red & Black) - 1 Each.

600 ohms Termination - 1 No.

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.



Test & Measurement Instruments

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