

1. ELECTRICAL SPECIFICATIONS

Accuracy calculated as $\pm [\% \text{ reading} + (\text{number of dgt} * \text{resolution})]$ at $18^{\circ}\text{C} \div 28^{\circ}\text{C}$, $<70\% \text{RH}$

DC VOLTAGE (Autorange)

Range	Resolution	Accuracy	Overload protection
4.000V	0.001V	$\pm(1.2\% \text{rdg} + 2 \text{dgt})$	600VDC/ACrms
40.00V	0.01V		
400.0V	0.1V		
600V	1V	$\pm(1.5\% \text{rdg} + 2 \text{dgt})$	

Input impedance: $7.8 \text{M}\Omega$

AC VOLTAGE (Autorange)

Range	Resolution	Accuracy (50 ÷ 400Hz)	Overload protection
4.000V	0.001V	±(1.2%rdg+4dgt)	600VDC/ACrms
40.00V	0.01V	±(1.5%rdg+3dgt)	
400.0V	0.1V		
600V	1V	±(2.0%rdg+4dgt)	

Input impedance: $7.8 \text{M}\Omega$

RESISTANCE (Autorange)

Range	Resolution	Accuracy	Overload protection
400.0Ω	0.1Ω	±(1.2%rdg+4dgt)	250VDC/ACrms
4.000kΩ	0.001kΩ	±(1.0%rdg+2dgt)	
40.00kΩ	0.01kΩ	±(1.2%rdg+2dgt)	
400.0kΩ	0.1kΩ		
4.000MΩ	0.001MΩ	±(2.0%rdg+3dgt)	
40.00MΩ	0.01MΩ		

DIODE TEST

Range	Resolution	Accuracy	Open voltage	Overload protection
	1mV	$\pm(10\% \text{rdg} + 5 \text{dgt})$	circa 1.5VDC	250VDC/ACrms

CONTINUITY TEST

Range	Buzzer	Test current	Overload protection
	R<35 Ω	<0.3VmA	250VDC/ACrms

FREQUENCY (Autorange)

Range	Resolution	Accuracy	Sensitivity	Overload protection
5.000Hz	0.001Hz	±(1.5%rdg+5dgt)	>8Vrms	250VDC/ACrms
50.00Hz	0.01Hz			
500.0Hz	0.1Hz	±(1.2%rdg+3dgt)		
5.000kHz	10Hz			
50.00kHz	10Hz			
500.0kHz	100Hz			
5.000MHz	1kHz	±(1.5%rdg+4dgt)		
10.00MHz	10kHz			

Note: on AC Voltage the frequency range is: 10Hz ÷ 10kHz ; Sensitivity: > 15Vrms



HT21

Rel. 2.00 – 09/08/24

Digital 4000 points multimeter

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DUTY CYCLE (Autorange)

Range	Resolution	Accuracy	Sensitivity	Overload protection
0.5 - 99%	0.1%	$\pm(1.2\%rdg + 2dgt)$	>8Vrms	250VDC/ACrms

100 μ s < pulse duration < 100ms ; Frequency range: 5Hz ÷ 150Hz**Note:** on AC Voltage the frequency range is: 10Hz ÷ 10kHz ; Sensitivity: > 15Vrms

CAPACITANCE (Autorange)

Range	Resolution	Accuracy	Overload protection
40.00nF	0.01nF	±(5.0%rdg+7dgt)	250VDC/ACrms
400.0nF	0.1nF	±(3.0%rdg+5dgt)	
4.000μF	0.001μF		
40.00μF	0.01μF		
100.0μF	0.1μF	±(5.0%rdg+5dgt)	

2. GENERAL SPECIFICATIONS

Display:

- LCD, 4 dgt, 4000 points plus sign and decimal point
- Automatic polarity indication
- Backlight
- “OL” overrange indication

Features:

- HOLD
- REL
- Auto Power OFF after 30 minutes of idleness

Low battery indication:

- “+ III” appears when the battery voltage is low

Working temperature:

- 0 °C to 50 °C, <70%HR

Storage temperature:

- -20 °C to 60 °C, <80%HR

General information:

- Max altitude: 2000m
- Pollution degree: 2
- Insulation: double insulation

Power supply:

- 1x9V battery NEDA 1604 IEC 6F22
- Battery life: ca 30h (backlight ON), ca 130h (backlight OFF)

Dimensions (L x W x H):

- 145 x 70 x 60mm
- Mechanical protection: IP40

Weight (included battery):

- 245g

Applied standards:

- Safety : IEC/EN 61010-1 CAT III 600V
- EMC: /EC/EN61326-1

This instrument satisfies the requirements of Low Voltage Directive 2014/35/EU (LVD) and of EMC Directive 2014/30/EU

This instrument satisfies the requirements of European Directive 2011/65/EU (RoHS) and 2012/19/EU (WEEE)