

3³/₄ Digits Multimeter

Model: 21

Features:

- EN61010-1 Approval
- Most rugged, Easy use Hand held meter
- Autorange on Frequency range and measurement to 4MHz
- Capacitance measurement from 1pF to 400μF
- Inductance measurement from 1μH to 40H
- Resistance measurement from 0.1Ω to 4000MΩ
- Diode test and Audible continuity check function
- Logic test function
- hFE test function
- Ohm, Diode, Continuity, Logic and Frequency input protection to 500V DC/AC rms

Specifications:

DC Voltage

Range: 400mV, 4V, 40V, 400V, 1000V
Resolution: 100μV
Accuracy: $\pm(0.5\%rdg+1dgt)$
Input impedance: 10MΩ

AC Voltage (50Hz - 500Hz)

Range: 400mV, 4V, 40V, 400V, 750V
Resolution: 100μV
Accuracy: $\pm(1.0\%rdg+4dpts)$ on 400mV to 400V ranges
 $\pm(2.0\%rdg+4dpts)$ on 750V range
Input impedance: 10MΩ

DC Current

Range: 40mA, 400mA, 10A
Resolution: 10μA
Accuracy: $\pm(1.0\%rdg+1dgt)$ on mA ranges
 $\pm(3.0\%rdg+1dgt)$ on 10A range
Burden voltage: 1.4V on all ranges, except 1.5V on 10A range
Fuse rating: 0.5A/600V, 10A/600V

AC Current (50Hz - 500Hz)

Range: 40mA, 400mA, 10A
Resolution: 10μA
Accuracy: $\pm(1.5\%rdg+4dpts)$ on mA range
 $\pm(3.5\%rdg+4dpts)$ on 10A range
Burden voltage: 1.4V on all ranges, except 1.5V on 10A range
Fuse rating: 0.5A/250V, 10A/600V

Resistance

Range: 400Ω, 4KΩ, 40KΩ, 400KΩ, 4000KΩ, 4MΩ, 40MΩ, 4000MΩ
Accuracy: $\pm(0.8\%rdg+4dpts)$ on 400Ω range
 $\pm(0.8\%rdg+2dpts)$ on 4KΩ to 4000KΩ ranges
 $\pm(3.0\%rdg+4dpts)$ on 40MΩ range
 $\pm[5.0\%rdg-20dpts]+10dpts]$ on 4000MΩ range

Diode Test

Accuracy: $\pm(3.0\%rdg+3dpts)$
Resolution: 1mV
Test current: 1.0mA±0.6mA
Test voltage: <3.0V

Continuity

Threshold: less than 40Ω±20Ω
Response time: <100mS

Inductance

Range: 4mH, 40mH, 400mH, 4H, 40H
Accuracy: $\pm(5.0\%+20dpts)$ on 4mH range
 $\pm(5.0\%+10dpts)$ on other ranges
Test frequency: 4mH, 40mH ranges 1KHz,
400mH, 4H ranges 270Hz, 40H range 27Hz



Capacitance

Ranges: 4nF, 40nF, 400nF, 4μF, 400μF
Resolution: 1pF
Accuracy: $\pm(5.0\%rdg+10dpts)$ on all ranges
 $\pm(8.0\%rdg+10dpts)$ above 100μF

Test frequency: 4nF, 40nF ranges 1KHz
400nF, 4μF ranges 270Hz, 400μF range 27Hz

Frequency

Range: 4KHz, 40KHz, 400KHz, 4000KHz
Resolution: 1Hz
Sensitivity: 1.0Vrms
Accuracy: $\pm(0.1\%rdg+1dgt)$
Effect reading: 10-3999

Logic Test

Logic type: TTL level
Input impedance: 120KΩ
Logic threshold: Logic 1: 2.8V±0.8V
Logic 0: 0.8V±0.5V
Frequency response: 20MHz
Detectable pulse width: 25ns
Pulse limit: >30% & <70% duty

hFE Test

Ib: 10μA approx
Vce: <3.3V
Range: 0-1000



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