

RS232 Optical Interface 2500 Counts Auto-Ranging Multimeter

Features:

- EN61010-1 Approval
- Most rugged, Easy use Hand held meter
- Frequency measurement from 0.500Hz to 5.000MHz
- Duty cycle measurement from 0.1% to 99.9%
- Capacitance measurement from 1pF to 20μF
- Diode test and Audible continuity check function
- Ohm, Diode, Frequency, Capacitance, Duty and Continuity input protection to 500VDC/AC rms

Model: 40R

Specifications:

DC Voltage (Autoranging)

Range: (menu) 250mV, 2.5V, 25V, 250V, 600V
Resolution: 100μV
Accuracy: $\pm(0.25\%rdg + 1dgt)$
Frequency: 0.500Hz to 5.000KHz
Duty cycle: 0.1% to 99.9%
Input impedance: 10MΩ

AC Voltage (Autoranging)

Range: 2.5V, 25V, 250V, 600V
Resolution: 100μV
Accuracy: $\pm(0.75\%rdg + 4dgt)$
Frequency: 0.500Hz to 5.000KHz
Duty cycle: 0.1% to 99.9%
Input impedance: 10MΩ

DC Current

Range: 250μA, 2500μA, 25mA, 250mA, 2.5A, 10A
Resolution: 100nA
Accuracy: $\pm(0.75\% + 1dgt)$ on μA, mA ranges
 $\pm(3.0\% + 1dgt)$ on A range
Fuse rating: 0.5A/250V, 10A/600V (Fast-acting Ceramic fuse)

AC Current (50 - 500Hz)

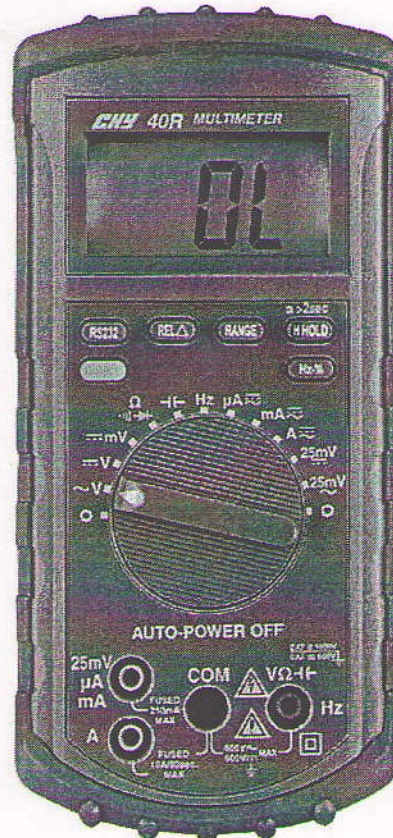
Range: 250μA, 2500μA, 25mA, 250mA, 2.5A, 10A
Resolution: 100nA
Accuracy: $\pm(1.5\% + 4dgt)$ on μA, mA ranges
 $\pm(3.5\% + 4dgt)$ on A range
Fuse rating: 0.5A/250V, 10A/600V (Fast-acting Ceramic fuse)

25 Milli - Volts (DC/AC @ 50Hz - 1kHz)

Resolution: 10μV
Accuracy: $\pm(1.0\%rdg + 10dgt)$

Duty Cycle (2Hz to 20kHz)

Ranges: 0.1% to 99.9%
Accuracy: $\pm[(0.1 \text{ multiplied by the pulse width in kHz}) dgt + 2dgt]$ @ 1Vrms min.
Pulse Width: 100nS



Resistance (Autoranging)

Range: 250Ω, 2.5KΩ, 25KΩ, 250KΩ, 2.5MΩ, 25MΩ
Resolution: 100mΩ
Accuracy: $\pm(0.3\%rdg + 3dgt)$ on 250Ω range
 $\pm(0.3\%rdg + 1dgt)$ on 2.5KΩ to 2.5MΩ ranges
 $\pm(3.5\%rdg + 4dgt)$ on 25MΩ range

Continuity

Audible indication: less than 35Ω $\pm 25\Omega$

Frequency (Autoranging)

Range: 5Hz, 50Hz, 500Hz, 5KHz, 50KHz, 500KHz, 5MHz
Resolution: 0.001Hz
Accuracy: $\pm(0.05\%rdg + 1dgt)$
Sensitivity: 1Vrms

Capacitance

Range: 2.5nF, 25nF, 250nF, 2.5μF, 25μF
Resolution: 1pF
Accuracy: $\pm(3.0\%rdg + 10dgt)$



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