

Model 16XL

Digital Multimeter



- Troubleshoot electronics
- Most functions in XL series
- 10 functions/32 ranges
- Data hold
- 2000 count
- CAT III 600 V rated

16XL Specifications (at 23 °C ± 5 °C, <75 % R.H. non-condensing)

DC Voltage	
Ranges	200 mV, 2 V, 20 V, 200 V, 600 V
Accuracy	± (0.5 %rdg + 1 dgt)
Resolution	100 µV in 200 mV range
Input Impedance	10 MΩ
AC Voltage (50-500 Hz) <i>applies to sinewaves only</i>	
Ranges	200 mV, 2 V, 20 V, 200 V, 600 V
Accuracy	200 mV - 200 V ± (1.0 %rdg + 4 dgts) 600 V ± (1.5 %rdg + 4 dgts)
Resolution	100 µV in 200 mV range
Input Impedance	10 MΩ
DC Current	
Ranges	20 mA, 200 mA, 10 A
Accuracy	20 - 200 mA ± (1.0 %rdg + 1 dgts) 10 A ± (2.0 %rdg + 3 dgts)
Resolution	10 µA in 20 mA range
Burden Voltage	20 mA range: 10 mV/1 mA 200 mA range: 1.6 mV/1 mA 10 A range: 43 mV/1A
AC Current (50-500 Hz)	
Ranges	20 mA, 200 mA, 10 A
Accuracy	20 - 200 mA ± (1.5 %rdg + 4 dgts) 10 A ± (2.5 %rdg + 4 dgts)
Resolution	10 µA in 20 mA range
Voltage Burden	See DC Current
Resistance	
Ranges	200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 2000 kΩ, 20 MΩ
Accuracy	200 Ω ± (1.0 %rdg + 3 dgts) 2 k-2 MΩ ± (1.0 %rdg + 1 dgts) 20 MΩ ± (3.0 %rdg + 1 dgt)
Resolution	100 mΩ on 200 Ω range
Open Circuit Voltage	200 Ω range 3.0 VDC typical All other ranges 0.3 VDC
Diode Test	
Test Current	1 mADC
Test Voltage	3.2 V
Display	Forward Junction Voltage
Continuity Test	
Audible Threshold	< 75 Ω
Response Time	< 100 msec
Capacitance	
Ranges	2 nF, 20 nF, 200 nF, 2 µF, 20 µF
Accuracy	± (3.5 %rdg + 4 dgts)
Test Frequency	400 Hz
Frequency Counter	
Ranges (autoranging)	2 kHz, 20 kHz, 200 kHz, 2 MHz, 15 MHz
Accuracy	± (0.1 %rdg + 2 dgts)
Sensitivity	1 Vrms
Duty Cycle	< 30 % to > 70 %
Transistor Beta	
Ranges	0 - 1000
Base Current	10 µAdc
Test Voltage (Vce)	3.0 VDC

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16XL Specifications (at 23 °C ± 5 °C, <75 % R.H. non-condensing) *cont.*

Logic Test

Logic Type	TTL
Input Impedance	120 kΩ ±10 kΩ
Logic Thresholds	Logic 1: 2.8 ± 0.8 V Logic 0: 0.8 ± 0.5 V
Maximum Frequency	20MHz
Pulse Width Detectable	25 ns min
Duty Cycle	20 % to 80 %

Overload Protection

DC Voltage	200 mV 350 VAC/500 VDC (15sec) All other ranges: 600 V RMS/1000 VDC (60sec)
AC Voltage	All ranges: 500 VDC or AC RMS
Current	200 mA Input: 0.5 A/250 V fast blow ceramic, size 6.35 x 25.4 mm

Resistance, Continuity, Logic Test	500 VDC or VAC RMS
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General Specifications

Display: 3 1/2 digit LCD, 1999 counts; **Display Update Rate:** 3/sec, nominal; **Power:** Standard 9 V battery, NEDA 1604, JIS 006P, IEC 6F22; **Battery Life:** 300 hours (alkaline); **Operating Temperature:** 0 °C to +50 °C, 0 to 70 % R.H.; **Storage Temperature:** -20 °C to 60 °C, 0 to 80 % R.H. battery removed; **Dimensions (HxWxD):** 15.5 x 7.2 x 3.2 cm (6.1" x 2.8" x 1.3"); **Weight (incl. Battery):** 218 grams (9 oz); **Included Accessories:** Test leads, operators manual, holster

Features

Low Battery Indication; Auto Power-Down; Warranty: One-year

Optional Accessories

H10Y Protective Holster; VC30 Vinyl Case; DL243C Basic Test Lead Kit; DL248C Deluxe Test Lead Kit; TL35A Test Lead set with Alligator Clips

For additional accessories, see the Accessories Compatibility Guide at www.metermantesttools.com



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Meterman Test Tools

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