

Digital multimeters for difficult environments



- Proven, highly resistant casing with IP67 sealing and separate battery/fuse compartment
- Casing and circuits made of self-extinguishing materials
- Highly resistant protective sheath with stand/hooking system
- 50,000-count display, quick 34-segment analogue bargraph, 20 meas./sec, backlighting (MX59HD)
- Basic accuracy Vdc 0.1% (MX58HD) or 0.05% (MX59HD)
- Bandwidth 50 kHz (MX58HD) or 100 kHz (MX59HD)
- 1 ms fast peak measurement (MX 58HD & MX 59HD), Min/Max/Avg surveillance mode (MX 59HD)
- Frequency measurement, duty cycle, capacitance, as well as temperature and dB with the MX 59HD
- Multi-channel acquisition software and RS232 interface (option)
- 500-hour battery life with one 9 V battery, casing calibration locked by PC software (option)
- High electrical protection, 600 V – Cat. IV

A Brand of

MX 58HD - MX 59HD:

Technical specifications	MX 58HD	MX 59HD
DC VOLTAGE		
Ranges	500 mV, 5 V, 50 V, 500 V, 600 V	
Resolution	10 µV, 100 µV, 1 mV, 10 mV, 100 mV	
Accuracy	0.1 %R + 2 D	0.05 %R + 2 D
Input impedance	10 MΩ/1 GΩ, 11 MΩ, 10 MΩ, 10 MΩ, 10 MΩ	
AC AND AC + DC VOLTAGES		
Range	500 mV, 5 V, 50 V, 500 V, 600 V	
Resolution	100 µV, 1 mV, 10 mV, 100 mV, 1 V	10 µV, 100 µV, 1 mV, 10 mV, 100 mV
Bandwidth	DC at 50 kHz	DC at 100 kHz
Basic accuracy	1 % + 30 D	0.3 %R + 30 D
Input impedance	10 MΩ/1 GΩ, 11 MΩ, 10 MΩ, 10 MΩ, 10 MΩ	10 MΩ/1 GΩ, 11 MΩ, 10 MΩ, 10 MΩ, 10 MΩ
DC CURRENTS		
Range	5 mA, 50 mA, 500 mA, 10 A	500 µA, 5 mA, 50 mA, 500 mA, 10 A
Resolution	100 nA, 1 µA, 10 µA, 1 mA	10 nA, 100 nA, 1 µA, 10 µA, 1 mA
Basic accuracy	0.2 %R + 2 D	0.05 %R+2 D
AC AND AC + DC CURRENTS		
Gamme	5 mA, 50 mA, 500 mA, 10 A	500 µA, 5 mA, 50 mA, 500 mA, 10 A
Resolution	1 µA, 10 µA, 100 µA, 10 mA	10 nA, 100 nA, 1 µA, 10 µA, 1 mA
Bandwidth	DC at 30 kHz	DC at 30 kHz
Basic accuracy	1 %R + 3 D	0.6 %R + 30 D
RESISTANCE & CONTINUITY		
Range	500 Ω, 5 kΩ, 50 kΩ, 500 kΩ, 5 MΩ, 50 MΩ	
Resolution	10 mΩ, 100 mΩ, 1 Ω, 10 Ω, 100 Ω, 1 kΩ	
Basic accuracy	0.1 %R + 3 D	0.07 %R + 2 D
Continuity detection	Threshold 10 Ω to 20 Ω – Response time 1 ms	
DIODE TEST	From 0 to 2 V – Measurement current 1 mA ± 20 % - Resolution 1 mV	
Diode voltage measurement	Protection 600 Vrms, automatic reset	
CAPACITANCE		
Range	50 nF, 500 nF, 5 µF, 50 µF, 500 µF, 5 mF, 50 mF	
Resolution	10 pF, 100 pF, 1 nF, 10 nF, 100 nF, 1 µF, 10 µF	
Basic accuracy	1 %R + 2 D	
FREQUENCY MEASUREMENTS		
Frequency (U or I)	Measurement range 0.62 Hz to 500 kHz – Resolution 5,000 counts – Accuracy 0.03 %L	
Other measurements	Duty cycle	
Temperature	-	Measurement range -200 °C to +800 °C – Resolution 0.1 °C Accuracy ± 0.5 °C from -125 °C to + 75 °C / ±1 °C from -150 °C to +700 °C Pt100 or Pt1000 platinum resistance probes
dB function	-	Measurement range from 10 mVAC to 600 VAC – Resolution 0.01 dB
Display	5,000 counts – 2 measurements / second – Digit height 14 mm	50,000 counts – 2 measurements / second – Digit height 14 mm
Bargraph	34 segments – 20 measurements per second	
Safety & Certification	EN 61010-1, Ed.2 (2001)	
EMC	NF EN 61326 + A1 (1998) – EN 61000-4-3 (1995)	
Temperature	Operation: 0°C to 50°C – Storage: -40°C to +70°C	
Power supply	9 V alkaline battery (6LF22) – Low battery indicator	
Battery life	500 hours – Automatic shutdown	
Mechanical spocifications	Dimensions 230 x 155 x 65 mm Weight 500 g Ingress protection IP67	

To order:

MX0058HD: MX 58HD multimeter delivered in a blister pack with 1 set of safety test probe leads, 1 protective sheath, a 9 V battery, 2 fuses installed and 1 operating manual.

MX0058HDL: MX0058HD delivered in a rigid carrying case with 1 measurement accessories kit (1 set of crocodile clips and 1 set of hook-type wire grips).

MX0059HD: MX 59HD multimeter delivered in a blister pack with 1 set of safety test probe leads, 1 protective sheath, a 9 V battery, 2 fuses installed and 1 operating manual.

MX0059HDL: MX0059HD delivered in a rigid carrying case with 1 measurement accessories kit (1 set of hook-type wire grips and 1 Kelvin CMS clip).

Optional accessories:

SX-ASYC2HD: RS232 connection kit

SX-DMM2: acquisition software for ASYCII

SX-ASYC2C/B: calibration software for ASYCII

HA1263: PT1000 temperature probe -20 °C +200 °C



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