

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 specifications	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



FRANCE
Chauvin Arnoux
190, rue Championnet
75876 PARIS Cedex 18
Tel: +33 1 44 85 44 80
Fax: +33 1 46 27 95 59
export@chauvin-arnoux.fr
www.metrix.fr

UNITED KINGDOM
Chauvin Arnoux Ltd
Waldeck House - Waldeck Road
MAIDENHEAD SL6 8BR
Tel: +44 1628 788 888
Fax: +44 1628 628 099
info@chauvin-arnoux.co.uk
www.chauvin-arnoux.co.uk

MIDDLE EAST
Chauvin Arnoux Middle East
P.O. BOX 60-154
1241 2020 JAL EL DIB (Beirut) - Lebanon
Tel: +961 1 890 425
Fax: +961 1 890 424
camie@chauvin-arnoux.com
www.chauvin-arnoux.com

For assistance and ordering