

# Analogue Multimeters



These hard-wearing instruments are the "4X4's" of the multimeter world!

- Continuity test with audible 'beep' signal
- Protection on all ranges
- Safety alarms in  $\Omega$
- Casing design renowned for its toughness
- 200 A current-clamp comes as standard with the MX 2B
- 'Carrying case' version available

MX 2B and MX 1: These hard-wearing instruments are the "4X4's" of the multimeter world!

#### Audible continuity test

Using this continuity test with audible 'beep' signal connections can be checked when carrying out resistance measurement.

#### Protection on all ranges

An input as high as 400 Vrms results in no damage to the device, even when carrying out resistance measurement. This ohmmeter function is protected by an electronic circuit which, without a fuse, is both reliable and extremely quick to react. The input terminals can take transient pulses up to 6 kV. As for the current ranges, they are protected by high rupturing capacity (HRC) safety fuses against 600 V.

#### Safety Alarms

In ohmmeter use an audible warning signal lets the user know if an AC network voltage is applied at the input. There is also a visible indicator that lights up if a fuse is blown.

#### AC current measurement

The MX 2B comes with a current clamp for current measurement that can be carried out safely up to 200 A. The AM 13N clamp makes current measurement possible without having to break the circuit being measured.

#### Renowned rugged casing design

The professionally designed casing is splash-proof and, thanks to a shock-proof surround, also resistant to knocks and drops. Its smooth casing design also makes it easy to clean.

#### Unfailing safety

The MX 2B and the MX 1 are completely doubly insulated devices, good for measurement up to 1500 V. Furthermore, the SECUR'X case-locking system prevents accidental disconnecting of the measurement leads. It also prevents the opening of the casing, to change the fuses or the battery, whilst the measurement leads are still connected.

TECHNICAL SPECIFICATION	MX 2B				MX 1		
<b>• DC Voltages</b>							
Ranges	0.5 V - 1.5 V - 5 V - 15 V - 50 V - 150 V - 500 V - 1.5 kV				150 mV - 0.5 V - 1.5 V - 5 V - 15 V - 50 V - 150 V - 500 V - 1.5 kV		
Protection	320 Vrms (range ≤ 5 V) - 500 Vrms (15 V) - 1000 Vrms (50 V) - 1500 Vrms (150 V to 1.5 kV)				320 Vrms (range ≤ 5 V) - 500 Vrms (15 V) - 1000 Vrms (50 V) - 1500 Vrms (150 V to 1.5 kV)		
Accuracy class	2				2		
Input Impedance	20 kΩ/V				20 kΩ/V		
<b>• AC Voltages</b>							
Ranges	5 V - 15 V - 50 V - 150 V - 500 V - 1.5 kV				5 V - 15 V - 50 V - 150 V - 500 V - 1.5 kV		
Protection	320 Vrms (range ≤ 15 V) - 500 Vrms (50 V) - 1000 Vrms (150 V) - 1500 Vrms (500 V and 1.5 kV)				320 Vrms (range ≤ 15 V) - 500 Vrms (50 V) - 1000 Vrms (150 V) - 1500 Vrms (500 V and 1.5 kV)		
Bandwidth	16 Hz to 1 kHz (500 Hz / 1500 V)				16 Hz to 1 kHz (500 Hz / 1500 V)		
Accuracy class	2.5				2.5		
Input Impedance	2 kΩ/V				6.32 kΩ/V		
<b>• DC currents</b>							
Ranges	50 μA - 10 A				50 - 500 μA - 5 - 150 - 500 mA - 1.5 - 10 A		
Accuracy class	2				2		
Line drop	< 0.5 V				1.2 V max		
Protection	1.6 A and 10 A fuses - 10 kA / 600 Vrms				1.6 A and 10 A fuses - 10 kA / 600 Vrms		
<b>• AC currents</b>							
Ranges	With AM 13N clamp 10 A 20 A 100 A 200 A				500 μA - 5 - 150 - 500 mA - 1.5 - 10 A		
Classe de précision	3 3 3 3				2.5		
Chute de tension	-				1.2 V max		
Protection	1.6 A fuse - 10 kA / 600 Vrms				1.6 A and 10 A fuses - 10 kA / 600 Vrms		
<b>• Resistances</b>							
Ranges	x 1 x 10 x 100				x 1 x 10 x 100		
Scale mid-point	200 Ω 2 kΩ 20 kΩ				200 Ω 2 kΩ 20 kΩ		
Accuracy class	2.5				2.5		
Protection	Electronic 400 Vrms(5s) + audible alarm				Electronic 400 Vrms (5s) + audible alarm		
<b>• Continuity</b>							
Detection threshold	R < 150 Ω				R < 150 Ω		
<b>• Other measurements</b>							
Diode test	Yes				Yes		
dB	Yes				Yes		

GENERAL SPECIFICATION	
Water-tightness	IP 65
Length of scale	80 mm
Safety	IEC 61010-1, Cat.III, 600 V - Pollution level 2
Operating Temperature	-10 to 50°C
Supply	1.5 V battery (AA, R6)
Dimensions / weight	40 x 98 x 150 mm / 420 g

Characteristics subject to modifications according to technological developments.

**metrix**  
Division of Chauvin Arnoux

FRANCE  
6, avenue du Pré de Challes - BP 330  
74943 ANNECY-LE-VIEUX Cedex  
Tel. : 33 4 50 64 22 22 - Fax : 33 4 50 64 22 13

190, rue Championnet  
75876 PARIS Cedex 18  
Tel. : 33 1 44 85 44 86 - Fax : 33 1 46 27 95 59

UNITED KINGDOM  
CA UK Ltd - Metrix  
Waldeck House - Waldeck Road  
Maidenhead SL6 8BR  
Tel. : (01628) 788 888  
Fax : (01628) 628 099

For assistance and ordering