# 2,000 to 5,000-count digital multimeters



### From the learning stage to professional life, tools for all generations

Depending on the model:

- → TRMS (AC+DC) measurements for precise and accurate results
- A bandwidth up to 100 kHz
- An innovative design with a compact and sturdy casing
- An excellent degree of readability for the results: a wide screen, a tendency display (bar graph), backlighting, etc.
- Numerous functions: MIN./MAX., AVG., MEM. and/or AUTO. MEM., etc.
- A unique way of accessing the batteries and fuses with improved safety mechanisms
- A optical serial link for reading and processing data on the computer with a user-friendly and high-performance software package
- An elastomer protective sheath along with numerous other accessories



## MX 26 - MX 24B - MX 23 - MX 22 - MX 21: 2,000 to 5,000-count digital multimeters

#### Design and sturdiness

In addition to their harmonious line, MX Concept multimeters are particularly well balanced and fit naturally into one's hand.

Moreover, protected in their elastomer sheath, they are able to withstand even the most severe conditions of usage. Besides, the primary method for putting the instrument away consists in inserting it back into its sheath, thereby perfectly protecting the screen and keys.

#### Simplicity at all levels

A rotary switch and real keys suffice to offer you all the necessary functions (MIN., MAX., AVG., measurement storage, etc.).

The indications marked on the keys are specially explicit so that the user might intuitively master the instrument's functionalities.

#### The result in the twinkling of an eye

All MX Concept multimeters have a large display; in this way, the unit and the conditions of measurement (batteries too low, AC or AC+DC measurement, change of automatic range, etc.) can be specified.

On the MX 26, 24B and 23, a bar graph of 34 segments instantaneously indicates the tendency of the measurement, and backlighting makes reading the result easier when the instrument is used in a poorly lit environment.



### melcix.

#### Measurement storage

All the instruments in the MX Concept range have the MEM function. A short press on this key blocks the display, and a second short press brings the user back to the normal display.

The MX 26, 24B and 23 are, moreover, equipped with an AUTO MEM function, enabling the last value measured other than zero and stable to be automatically maintained for at least 1 s. after the measuring circuit has been opened. This is particularly advantageous when the measurement points are difficult to access, forcing the user to fix his attention on the test probes.

### Changing the battery and fuses, no longer any need to rack your brains!

What can be more tedious than looking for a screwdriver to change the batterie or fuses? The MX Concept casing enables you to perform this operation quickly and easily using any utensil: coin, pen, etc.







Everything is safel To begin with, the instrument automatically switches itself off after 30 minutes of it not being used (disengageable in the case of the MX 26 and 24B), which guarantees a longer life for your batterie. Then, an automatic detection mechanism indicates the presence of a voltage greater than 24 V or a current greater than 10 A (MX 26, 24B and 23). Lastly, the batterie and fuses can only be accessed if the measuring leads are disconnected.

#### Direct display of currents

Although it has no current input, the MX 21 offers an Although it has no current input, the MX 21 offers an original function which allows the measurements to be read in amps. To do this, simply use the MN 89 ammeter clamp and put the rotary switch into the clamp position. The instrument then automatically manages the transfor-mation coefficient and directly displays the value of the AC currents.

#### μA measurements

With a resolution of up to 0.1 µA, the MX 22 enables very weak currents to be measured, whether they be alternative or direct. This point is highly advantageous when it comes to electronics applications.

#### **Dedicated functions**

In order to simplify their use, some models (MX 26, MX 24B and MX 23) have dedicated functions. Thus, when the rotary switch is positioned on ADP, these multimeters offer a 500 mVDC or AC+DC range intended for use with additional accessories: temperature probe, tachometric probe, etc. Moreover, their V low Z (low impedance) function avoids

the phantom voltages we sometimes come across in electricity having to be measured.





The MX 23 ready for a current measurement to be carried out

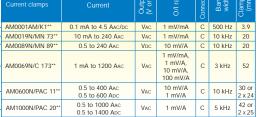
Communication and software

Thanks to its infrared digital output, the MX 26 can be connected directly to a computer without any risk. Data acquisition is continuous The user can record the data, represent it in the form of a graph and export it, at leisure, to an Excel\* type spreadsheet (SX-DMM2 software). He can also calibrate the instrument without opening it

and edit a list mentioning all the corrections which have been made to the instrument.

The SX-DMM2 multilingual software package can easily be used with the MX 26 for data acquisition.





· L = lead

\*\* = New reference

metrix.

Ranges	TECHNICAL CHARACTERISTICS	MX 26	MX 24B	MX 23	MX 22	MX 21
Resolution	DC voltages	0.5 5 50 500	0 5 5 50 500	0 5 5 50 500	40 400 mV	20 200 mV
Resolution   0.1 mV to 1 V   0.1 mV to 1 V   0.1 mV to 1 V   0.01 mV to 1 V   0.00 mV to	Ranges					
Input Impedance	Resolution	· · · · · · · · · · · · · · · · · · ·	<u> </u>	0.1 mV to 1 V		0.01 mV to 1 V
Protection	Basic accuracy*	0.3% rdg + 2 digits	0.3% rdg + 2 digits	0.3% rdg + 2 digits	0.3% rdg + 2 digits	1% rdg + 4 digits
Protection						
AC voltages   Peak factor   Color	Input impedance	10 MΩ (11 MΩ/ 5V)	10 MΩ (11 MΩ/ 5V)	10 MΩ (11 MΩ/ 5V)		5 ΜΩ
Ranges	Protection	•			600 VRMS	600 VRMS
Ranges	AC voltages					
Resolution	Peak factor	6	3	3	-	-
Resolution   0.1 mV to 1 V	Ranges					
Bandwidth   A0   Hz to 100 kHz   A0   Hz to 1 kHz   A0   Hz to 1 kHz   (100   kHz   (100 kHz   (	Decalution					
Basic accuracy	Resolution	0.1 1117 10 1 7	0.1 mv to 1 v	0.1 mv to 1 v		
Basic accuracy'   1% rdg + 3 digits   1.5% rdg + 2 digits   15% rdg + 2 digits   1.5% rdg + 2 digits   1.5 km (q m)   1.5 k	Bandwidth	40 Hz to 100 kHz	40 Hz to 1 kHz	40 Hz to 1 kHz		
Protection	Basic accuracy*					1.5% rdg + 8 digits
Protection   10 MΩ (11 MΩ / 5V)   10 MΩ (11 MΩ /					1.5 MΩ (40 mV)	
- AC voltages (low Z) - Ranges   5 - 50 - 500 - 750 V   5 - 50 - 500 - 600 V   5 - 50 - 500 V   5 - 50 V   5 - 50 - 500 V   5 - 50 V   5	Input impedance	, ,	, ,	, ,	` '	
Ranges   Sob -	Protection		,		600 VRMS	600 VRMS
Resolution	• AC voltages (low 7)	ZITIV C11	(000 VIIIIS/0.5 V)	(000 VIIIIS/U.5 V)		
Resolution		5 - 50 - 500 - 750 V	5 - 50 - 500 - 600 V	5 - 50 - 500 - 600 V	_	_
Basic accuracy*   19k rdg + 3 digits   19k rdg + 2 digits   19k rdg + 3 digits   19k rdg +					-	-
Input impedance					-	-
Protection         ±1,100 VPEAK 775 Visus         600 VRMS         600 VRMS					-	-
Poc currents	· · · · · · · · · · · · · · · · · · ·	±1,100 VPEAK			-	-
Range Resolution   100 μA / 10 mA   100 μA / 100	DC currents	770 1100				
Resolution		500 mA / 10 A	500 mA / 10 A	- 400	0 μA, 4 - 40 - 400 mA, 4 - 1	10 A -
Basic accuracy*				-		-
Protection   600 Vrivis - HBP fuse   -   600 Vrivis -   -   600 Vrivis - HBP fuse	Basic accuracy*	0.3% rdg + 2 digits	0.3% rdg + 2 digits	-		-
Peak factor   6   3   -   -   -   -   -   -   -   -   -	Protection			-	600 VRMS - HBP fuse	-
Range   S00 mA / 10 A (Ac+DC)   S00 mA / 10 A (Ac+DC)   -   400 μA, 4 - 40 - 400 mA, 4 - 10 A (with AM 89N clam A + 10 A A + 10 A A A A + 10 A A A A A A A A A A A A A A A A A A	AC currents					
Resolution   100 μA / 10 mA   100 μA / 10 mA   - 0.1 μA to 10 mA   0.1 A	Peak factor	6	3	-	-	-
Bandwidth	Range	500 mA / 10 A (AC+DC)	500 mA / 10 A (AC+DC)	-	4 - 10 A	200 A (with AM 89N clamp)
Basic accuracy*   1.5% rdg + 2 digits   1.5% rdg + 3 digits   1.5% rdg + 2 digits   1.5% rdg + 2 digits   1.5% rdg + 3 digits   1	Resolution	•	100 μA / 10 mA	-	0.1 µA to 10 mA	0.1 A
72.5 % rdg + 2 digits   72.5 % rdg + 5 digits   72.	Bandwidth		40 Hz to 1 kHz	-	40 Hz to 500 Hz	40 Hz to 500 Hz
Protection   Pr	Basic accuracy*			-	1.2% rdg + 5 digits	1% rdg + 4 digits
• Resistances         Sou Ω, 5 - 50 - 500 kΩ, 6 - 50 - 500 kΩ, 4 - 40 - 400 kΩ, 2 - 20 - 200 kΩ, 6 - 50 - 500 kΩ, 6 -					(00 Ver - 1100 C	
Ranges $500  \Omega, 5 - 50 - 500  k\Omega$ , $5 - 50 - 500  k\Omega$ , $5 - 50 - 500  k\Omega$ , $5 - 50  M\Omega$ $500  \Omega, 5 - 50 - 500  k\Omega$ , $5 - 50  M\Omega$ $400  \Omega, 4 - 40 - 400  k\Omega$ , $200  \Omega, 2 - 20 - 200  k\Omega$ Resolution $100  m\Omega  to  10  k\Omega$		OUU VRMS - HBP TUSE	OUU VKWS - HBP TUSE	-	OUU VRMS - HBP TUSE	OUU VRMS
Resolution         5 - 50 MΩ         5 - 50 MΩ         5 - 50 MΩ         4 - 40 MΩ         2 - 20 MΩ           Resolution         100 mΩ to 10 kΩ         600 VRMs         60		500 0 5 - 50 - 500 kg	500 O 5 - 50 - 500 kg	5000 5 - 50 - 500 40	400 O 4 - 40 - 400 kg	200 0 2 - 20 - 200 kg
Resolution         100 mΩ to 10 kΩ         600 VRMs         600 VRMs </td <td>Ranges</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Ranges					
Basic accuracy*         0.3% rdg + 3 digits         0.3% rdg + 3 digits         0.3% rdg + 3 digits         0.5% rdg + 4 digits         1% rdg + 4 digits           Protection         600 VRMs	Resolution					100 mΩ to 10 kΩ
Protection         600 VRMS         600 VRMS         600 VRMS         600 VRMS         600 VRMS           • Continuity           Detection threshold         10 to 15 Ω         10 to 20 Ω         10 to 20 Ω         < 40 Ω •))					0.5% rdg + 4 digits	1% rdg + 4 digits
Detection threshold         10 to 15 Ω         10 to 20 Ω         10 to 20 Ω         < 40 Ω •))         750 Ω •))           • Diode test           Diode voltage         0 to 1.999 V         0 to 1.999 V         0 to 1.999 V         0 to 4 V         0 to 3 V           • Capacity           Ranges         50 - 500 nF, 5 - 50 500 μF, 5 - 50 mF         50 - 500 nF, 5 - 50 500 μF, 5 - 50 mF         500 μF, 5 - 50 mF         -         -         -           Basic accuracy*         1% rdg + 2 digits         4 - 40 - 400 kHz, 4 - 40 MHz**         -           • Frequency	·					
• Diode test           Diode voltage         0 to 1.999 V         0 to 1.999 V         0 to 1.999 V         0 to 4 V         0 to 3 V           • Capacity         Ranges         50 - 500 nF, 5 - 50 500 μF, 5 - 50 mF         50 - 500 nF, 5 - 50 500 μF, 5 - 50 mF         500 μF, 5 - 50 mF         500 μF, 5 - 50 mF         - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Diode voltage         0 to 1.999 V         0 to 1.999 V         0 to 1.999 V         0 to 4 V         0 to 3 V           • Capacity           Ranges         50 - 500 nF, 5 - 50 500 μF, 5 - 50 mF         50 - 500 nF, 5 - 50 500 μF, 5 - 50 mF         500 μF, 5 - 50 mF         - <td< td=""><td></td><td>10 to 15 Ω</td><td>10 to 20 Ω</td><td>10 to 20 Ω</td><td>&lt; 40 Ω •))</td><td>750 Ω •))</td></td<>		10 to 15 Ω	10 to 20 Ω	10 to 20 Ω	< 40 Ω •))	750 Ω •))
• Capacity         Ranges       50 - 500 nF, 5 - 50 500 μF, 5 - 50 500 μF, 5 - 50 mF       50 - 500 nF, 5 - 50 mF       500 μF, 5 - 50 mF						
Ranges 50 - 500 nF, 5 - 50 50 op, 50 - 500 nF, 5 - 50 500 pF, 5 - 50 mF 500 pF, 5 -		0 to 1.999 V	0 to 1.999 V	0 to 1.999 V	0 to 4 V	0 to 3 V
Soo μF, 5 - 50 mF   Soo μF,	Capacity	FC - FC	F0 F00 F	50 500 5		
• Frequency  Ranges  5 - 50 - 500 Hz, 5 - 50 - 500 Hz, 5 - 50 - 500 Hz, 4 - 40 - 400 kHz, 5 - 50 - 500 kHz**  5 - 50 - 500 kHz** 5 - 50 - 500 kHz** 5 - 50 - 500 kHz**	Ranges				-	-
Ranges 5 - 50 - 500 Hz, 5 - 50 - 500 Hz, 5 - 50 - 500 Hz, 4 - 40 - 400 kHz, 5 - 50 - 500 kHz** 5 - 50 - 500 kHz** 5 - 50 - 500 kHz** 4 - 40 MHz**		1% rdg + 2 digits	1% rdg + 2 digits	1% rdg + 2 digits	-	-
5 - 50 - 500 kHz** 5 - 50 - 500 kHz** 5 - 50 - 500 kHz** 4 - 40 MHz**	Frequency					
Basic accuracy* 0.03% rdg + 1 digits 0.03% rdg + 1 digits 0.03% rdg + 1 digits 0.1% rdg + 3 digits	Ranges					-
Dusio decertedy 0.0076 rag + 1 digits 0.0076 rag + 1 digits 0.0076 rag + 1 digits 0.176 rag + 2 digits -	Basic accuracy*	0.03% rdg + 1 digits	0.03% rdg + 1 digits	0.03% rdg + 1 digits	0.1% rdg + 3 digits	-

<sup>\*</sup> Accuracy of the best range \*\* Measurement on 50,000 counts

# Accessories and information for ordering Accessories included

Each model is delivered with an elastomer sheath, a set of 2 safety leads, one 9 V battery (installed), a verification certificate and an operating manual.

#### Accessories available as optional extras

SX-DMMK2 Communication kit for MX 26\*
HT0203 THT 3 kVAC/DC voltage probe
HT0212 THT 30 kVDC voltage probe

HK0210N-25 to 350°C general usage temperature probeHA1237Tachometric probe, 100 r.p.m. to 60,000 r.p.m.AE0190Shoulder bag for carrying the instrument from place

to place (185 x 270 x 60 mm) Small and flat portable case

**HX0018** Protective sheath (110 x 240 x 50 mm)

\*Includes 1 HX2002 serial link lead and 1 SX-DMM2 software package

To order:

HX0009

MX0021-Z MX 21 2,000-count digital multimeter MX0021-W MX 21 2,000-count digital multimeter

and AM 89N clamp

MX0022-Z MX 22 4,000-count digital multimeter MX0023-G MX 23 5,000-count digital multimeter MX0024BG MX 24B 5,000-count digital multimeter MX0026-G MX 26 5,000-count digital multimeter

with a digital link

MX0021-L MX 21 in small case

MX0021-T MX 21 and AM 89N clamp in small case

MX0022-L MX 22 in small case
MX0023-L MX 23 in small case
MX0024BL MX 24B in small case

MX0026-T MX 26 with communication kit in small case

The MX 26, 24B and 23 are delivered with a multifunctional sheath, whereas the MX 22 and 21 are delivered with a "sock-shaped" sheath.



Characteristics subject to modifications according to technological developments.



Instruments by Chauvin Arnoux

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

Fax: +33 1 46 27 95 59 e-mail: export@chauvin-arnoux.fr www.chauvin-arnoux.fr

WINITED KINGDOM / Chauvin Arnoux Ltd
Waldeck House - Waldeck Road
MAIDENHEAD SL6 8BR
Tel: 01628 788 888
Fax: 01628 628 099
e-mail: info@chauvin-arnoux.co.uk
www.chauvin-arnoux.co.uk

