

2,000 to 5,000-count AVG or TRMS Digital Multimeters MX 21 - MX 22 - MX 23 - MX 24 - MX 24B - MX 26







MX Concept Series





Ergonomic, rugged and safe

- AVG or TRMS (AC+DC) measurements for precise, accurate results
- Bandwidth of up to 100 kHz
- Innovative design with a compact, rugged casing
- Large display with bargraph and backlighting for easy reading
- Numerous functions: MIN/MAX, AVG, MEM and/or AUTO MEM, etc.
- Single access to batteries and fuses with extra safety
- An optical RS 232 link to process the data on a PC with high-performance, user-friendly software
- An elastomer protective sheath and a wide range of measurement accessories
- Recyclable, re-usable instruments in compliance with the DEEE 2002/96/CE directive.







2,000/4,000/5,000-count AVG or TRMS digital multimeters



Elegant, rugged design

In addition to their elegant design, the MX Concept multimeters are particularly well balanced and comfortable to handle. Furthermore, in their elastomer sheath, they can resist even the severest operating conditions. The instrument can also be stored safely by reversing it in the sheath, thus ensuring that the screen and keys are fully protected.

All-round simplicity

A rotary switch and a set of extra-wide keys give you direct access to all the necessary functions (MIN, MAX, AVG, measurement storage, etc.).

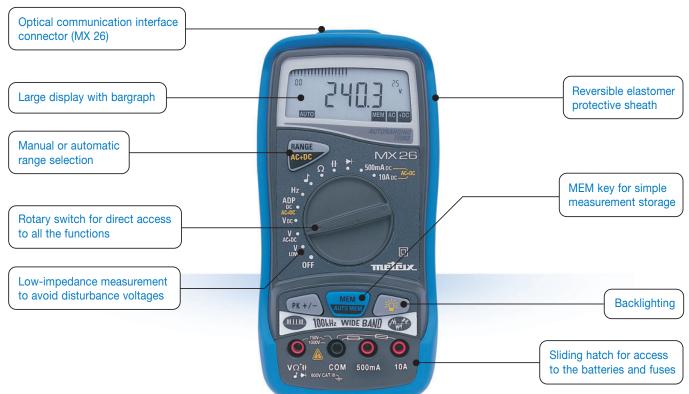
The labels on the keys are particularly explicit so that users can quickly learn to use the instrument's functions intuitively.

Results at a glance

The MX Concept models all have a large display. This allows indication of the measurement unit and conditions (batteries too low, AC or AC+DC measurement, autoranging, etc.).

On the MX 26, MX 24, MX 23 and MX 22, a fast segmented bargraph instantly indicates the measurement trend and backlighting makes the display easy to read even in dark conditions (MX 24 and MX 26).







Storage of measurements

All the instruments in the MX Concept range are equipped with the MEM storage function.

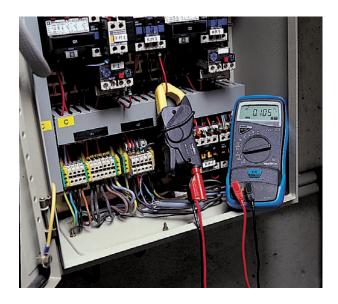
By gently pressing this key, you can lock the display, while a second press switches it back to normal display mode. In addition, the MX 26, MX 24 and MX 23 are equipped with the AUTO MEM function. This enables you, after opening the measurement circuit, to hold the last non-zero value measured which remained stable for at least 1 s.

This is particularly useful when the measurement points are difficult to access, forcing the user to concentrate on the test probes.



Direct display of currents

Although it does not have a current input, the MX 21 offers an original function for reading measurements in Amperes. Simply use an MN 89 current clamp (or one of our other 100 mV/A models) and set the rotary switch to the clamp position. The instrument will then automatically manage the transformation coefficient and display the AC current values directly in Amperes.



Measurements in µA

With its maximum resolution of 0.1 μ A, the MX 22 can be used to measure very low AC or DC currents. This is particularly useful for applications in electronics, for example.

Dedicated functions

For simpler use, some models (MX 26, MX 24 and MX 23) offer dedicated functions.

In this way, when the rotary switch is set to ADP, these multimeters propose a 500 mV DC or AC+DC calibre for the use of complementary accessories: temperature sensor, tachometric sensor, current sensor, etc.

In addition, their V low Z function (low impedance) avoids measuring the phantom voltages which may be encountered in electrical systems due to the stray capacitance of the cables.

Even greater safety

Everything is safe! First of all, automatic shutdown of the instrument after 30 minutes without use optimizes the life span of your battery (this can be deactivated on the MX 26 and MX 24). Secondly, an automatic detection function indicates the presence of a voltage greater than 24 V or a current greater than 10 A (MX 26, MX 24 and MX 23).

Lastly, the battery and fuses are not accessible unless the measurement leads have been disconnected.



Battery and fuse changes made easy!

What could be more tiresome than looking for a screwdriver when you need to change the batteries or fuses? The MX Concept casing is specially designed to make this operation quick and easy, using any tool to hand: coin, pen, steel rule, etc.

Access to the battery and fuses is particularly easy and they can be changed in total safety, as it is impossible to open an MX Concept casing without first disconnecting the leads. In addition, both the battery and the fuses benefit from genuine dedicated housings separated from the electronic circuit board.

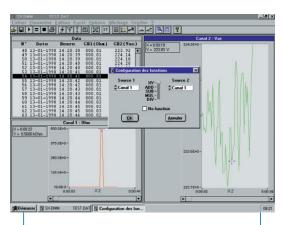


Communication and software

Thanks to its infrared digital output, the MX 26 can be connected directly to a computer in total safety.

Stream acquisition is performed at rates of up to 2 measurements per second. Users can record the data, display them in graphic form and export them, at any time, into spreadsheet software such as Excel (SX-DMMK2 software).

It can also be coupled with up to 4 multimeters to constitute a genuine multi-channel measurement acquisition system.



► The SX-DMMK2 multilingual communication kit is easy to use with the MX 26 for data acquisition



► The connector of the MX 26's optical digital interface plugs directly into the instrument without any further action required.







MX 21

The excellent price/performance ratio of the MX 21 makes this 2,000-count digital multimeter the leader among measurement instruments designed for day-to-day electrical applications.

Its 18 mm-high digits make the display exceptionally easy to read. It is ideal for measuring AC currents with a 200 A clamp (included with the MX0021-T and MX0021-W versions).

MX 22

The MX 22, a 4,000-count digital multimeter, offers a particularly wide range (400 μ A to 10 A full scale) for measuring currents directly. In addition, its fast bargraph can be used to assess variations of the measurement or of the minimum/maximum values.

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MX 23

The MX 23 is a highly accurate 5,000/50,000-count TRMS digital multimeter with reinforced safety features. It gives the true root-mean-square value whatever the waveform of the signal, whether sinusoidal or distorted, with or without a DC component. Range selection is automatic by default and helps to prevent handling errors.

This multimeter includes an ADP input for current measurement with clamps (see selection tables).

This fuseless model is particularly effective and economical.



MX 24 / MX 24B

As soon as it was launched on the market, the MX 24B became the reference among 5,000/50,000-count TRMS digital multimeters.

Equipped with an ADP input, it can be hooked up to a variety of probes and accessories: light meter, current clamp, thermometer, tachometer, etc.

It also includes functions for low-impedance measurement (VLowZ), current measurement directly or with clamps, a capacitance meter, a frequency meter and a MIN/MAX/AVG monitoring mode.



MX 26

The MX 26 is a 5,000/50,000-count TRMS digital multimeter which is unique in its category because it offers a bandwidth of up to 100 kHz. With its infrared digital output, the MX 26 can be connected directly to a computer in total safety. Users can then set up a genuine data acquisition system with graphs, charts, alarms, etc. (SX-DMMK2 option).





Quick selection guide for clamps suitable for use with MX Concept multimeters







Specific use	AC & DC current			Leakage current	Process	Current transformer			
Products	E6N	PAC11	PAC20	MN73	K2	MN71			
Reference	P01120040A	P01120068	P01120071	P01120421	P01120074A	P01120420			
Useful measurement range associated with the multimeter for use of 5 % to 100 % of the multimeter's ranges									
MX21			1 A to 1,400 A _{DC}	- 10 mA to 240 A _{AC}	100 μA to 450 mA _{DC}				
	5 mA to 80 A _{AC/DC}		1 A to 1,000 A _{AC}		100 μA to 300 mA _{RMS}				
MX22			2 A to 1,400 A _{DC}	TO THE LEGISTRACE	200 μA to 450 mA _{DC}				
			2 A to 1,000 A _{AC}		200 μA to 300 mA _{RMS}				
MX23		0.4 A to 600 A _{DC}							
		0.2 A to 400 A _{AC}	05 4 + 4 400 4		0.5 0 +- 450 0				
MX 24	25 mA to 80 A _{AC/DC}		25 A to 1,400 A _{DC}	25 mA to 240 A _{AC}	2.5 mA to 450 mA _{DC}	250 MA to 12 A			
			25 A to 1,000 A _{AC}		2.5 mA to 300 mA _{RMS}				
MX24B / MX26									
Clamp performance									
Bandwidth	2 kHz ou 8 kHz	10 kHz	5 kHz	10 kHz	1.5 kHz	10 kHz			
Typical accuracy	2% ou 4%	1.5% - 2%	2%	1% - 2%	1%	1%			
Clamping diameter	11.8 mm	39 mm	39 mm	20 mm	3.9 mm	20 mm			
Output									
Direct reading	YES	YES	YES	YES	NO	NO			
	1 V/A – 10 mV/A	10 mV/A – 1 mV/A	1 mV/A	1 V/A – 10 mV/A	10 mV/mA	100 mV/A			
Connection	Lead	Lead	Lead	Lead	Lead	Lead			

Recommended

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ccessories included	as standard	for all the	models:	an	elastom

MX0021-L: MX 21 delivered in hard case.

MX0021-T: MX 21 delivered in hard case with 1 current clamp.

MX0022-L: MX 22 delivered in hard case.

MX0023-CG: MX 23

MX0024-CG: MX 24

MX0024B-CL: MX 24B delivered in hard case

MX0026-G: MX 26

MX0021-Z: MX 21 delivered in blister.

MX0021-W: MX 21 delivered in blister pack with 1 current clamp.

er sheath, a set of 2 safety leads, 9 V battery installed

MX0022-Z: MX 22 delivered in blister pack.

MX0023-CL: MX 23 delivered in hard case.

MX0024-CL: MX 24 delivered in hard case.

MX0024B-CZ : MX 24B in blister pack

MX0026-T: MX 26 delivered in hard case with 1 optical interface and software (SX-DMMK2 Kit)

Optional accessories

HX0002: Simple shockproof sheath for MX21/MX22/MX23/MX24
AE0237: Sheath with stand for MX21/MX22/MX23/MX24

HX0010: Shockproof sheath with stand for MX26

HX0018: Carrying case (110x240x50 mm) **AE0190:** Carrying bag (185x270x60 mm)

HX0009: Hard case with Metrix logo (270x195x65 mm)

AE0227: Hard case with Metrix logo (320x260x90 mm)

P01651610Z: Infrared temperature probe, -30 °C to +550 °C (1mV/°C)

HX0064: CMS clamp (banana lead)



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