

ASYC IV

metrix

The expert multimeters for difficult environments

ASYC IV

METRIX revolutionizes multimeters !

- ▶ **Optimized display:**
 - Graphical display of trends and multiple parameters
 - 600 Hz waveform
- ▶ **Power supply via USB charger**
- ▶ **Top-of-the-range specifications:** 100 kcts, 200 kHz bandwidth and 0.02% accuracy
- ▶ **Spécifications haut de gamme** 100 kpts, bande passante 200 kHz et précision 0,02%
- ▶ **Multiple analytical tools:** time/date-stamped MIN/MAX/AVG and PEAK monitoring

... Plus unrivalled simplicity of use, as always!

300 V CAT IV
600 V CAT III

600 V CAT IV
1000 V CAT III

IP
67



3-year
warranty

Measure up



ERGONOMICS AND STRENGTHS

deal for both portable and benchtop use, the ASYC IV multimeters are simple and intuitive to use. Accessible directly, the different measurements are indicated explicitly by pictograms on the electronic switch. The display can be used to view the measurement results either as numeric values or as graphs showing the trend over time. can be displayed as a trace, with the possibility of positioning cursors and zooming on part of the recorded curve. Help in French and English is integrated into the instrument and provides information about the measurements in progress. USB or BT communication is provided for data transfers onto PC, recording and programming with the LV/LW drivers. Once it is connected to a PC, it is possible to upgrade the instrument's firmware by using the «Loader» program accessible on our website.



Multiple languages available depending on the release version

SECURE TERMINAL STRIP

Audible alert when the cables are connected to the wrong inputs and automatic recognition of the function
- 4 terminals: 3 measurement inputs
+ 1 isolated connection for USB communication

SELECTION OF THE MEASUREMENT FUNCTION

By means of a function key which then lights up to remind you for intuitive configuration.



DISPLAY WITH LARGE DIGITS

Multiple parameters and 3 levels of backlighting which varies automatically according to the ambient lighting for better visibility and more comfortable reading
- graphical: measurement trend, waveform display

F1 → F4 FUNCTION KEYS

Pour accéder directement aux menus de fonction

FOR CHARGING WITH A USB CABLE

IP 67 MOULDED CASING

For excellent handling.

- The ASYC IV models can be powered by normal batteries, rechargeable batteries or the mains supply.
- The battery-powered ASYC IV models, rechargeable via USB, offer a battery life of up to 400 hours to simplify use in the field.
- To optimize the ASYC IV's consumption, the standby mode can be activated and the internal accelerometer allows you to wake up the instrument simply by touching its keyboard.



A magnetic suspension system is available as an option for simple installation and viewing while freeing your hands for other tasks.



Magnetized soft case suitable for the Multifix system.

APPLICATIONS

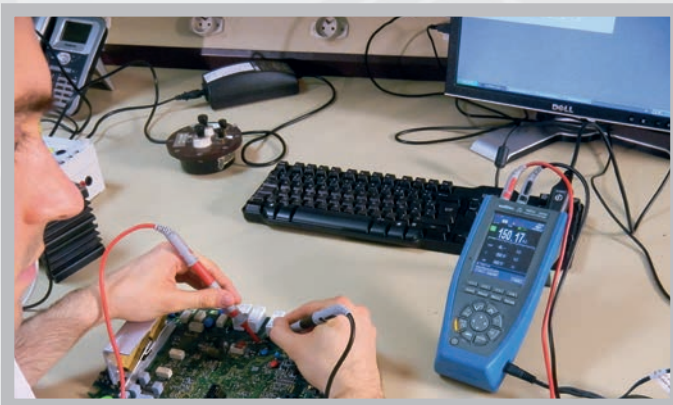
The ASYC IV multimeters are ideal for many applications in industry, telecommunications and defense. Their multiple functions make them easy to use for electrical and electronics maintenance, as well as machine maintenance. In electronics, the ASYC IV models can be used both for wiring tests on computer or medical equipment and for component testing.

In industry, they can be used for the applications encountered in departments dealing with automatic control systems and processes in a wide variety of sectors: food, plastics, concrete, metal, paper, wood, oil, nuclear, etc. The ASYC IV models are also useful for the maintenance of many industrial machines: numerical control, motors, generators, etc. Their versatility makes them ideal for the needs of expert electrical installers and professionals in the transport and energy sectors.

The high-performance, accessible and ergonomic ASYC IV multimeters also have a key role to play in education and research.



For metrology...



... or After-Sales Se



Measurements on electrical cabinets

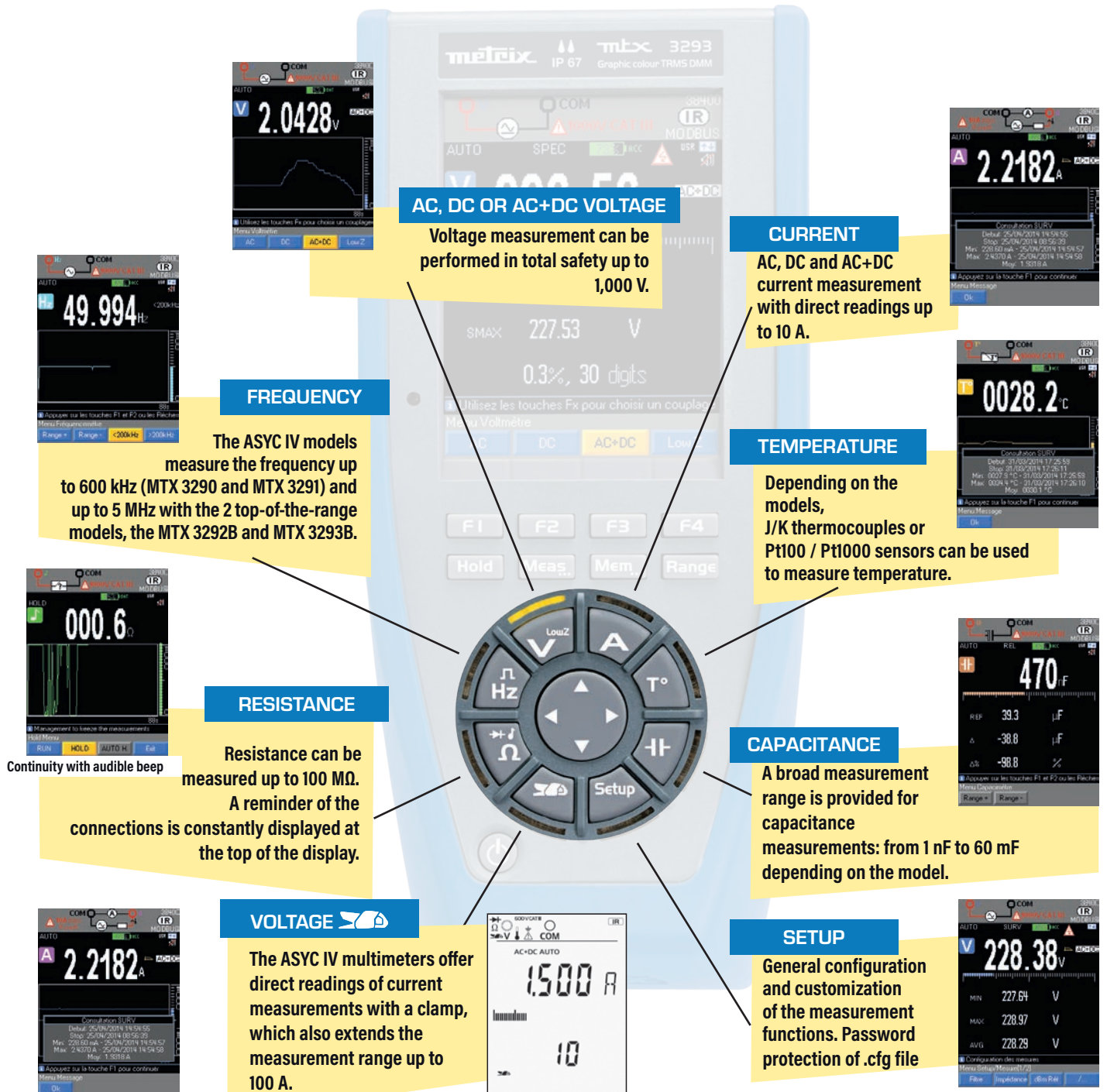


The IP67 protection of the ASYC IV models means they can handle applications in difficult environments

MEASUREMENTS

Measurements

The TRMS measurements of AC voltages and currents are also accurate on non-linear signals.



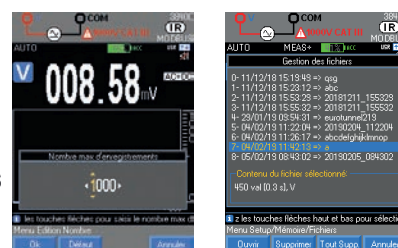
The mV/A or A/A ratio can be set on the MTX 3292/3293. Fixed mV/A ratio on the MTX 3290/3291

Recording

Depending on the models, the ASYC IV instruments can record up to 30,000 values. The simplified parameterization concerns the number of measurements, the interval (0.3 s to 24 hours), the duration and the storage capacity.

File management

Display of the files with time/date-stamping and campaign name.



FUNCTIONS

CONTROL OF MEASUREMENT WITH THE SURV AND PEAK FUNCTIONS

The capture of time/date-stamped minimum / maximum / average and PEAK values makes it possible to record the transient values and variations automatically. This function enables effective detection of a signal's variations or anomalies.



RECORDING OF 30,000 VALUES IN THE MULTIMETER'S MEMORY

Main value + secondary values with graphical trace.
30 campaigns with a minimum interval of 0.3 s



RELATIVE VALUES FOR GREATER PRECISION

The REL relative mode can be used to express measurements as absolute and relative differences with regard to the reference measured.



DISPLAY OF THE WAVEFORM

V or I signal display up to 600 Hz, auto trigger.



MEASUREMENT WITH CURRENT CLAMP

Depending on the model, users can integrate the transformation ratio for direct readings of the current value, whether the clamp is equipped with a V or A output.

MATH FUNCTION

This function is adapted for the measurement of any physical quantity by appropriate unit conversion and offers direct readings (Ax+B).



ACCURATE MEASUREMENTS, INCLUDING ON VARIABLE SPEED DRIVES

A 300 Hz low-pass filter ensures accurate voltage and frequency measurements on the drive units of PWM variable-speed motors.

Hz FUNCTIONS

Frequency can be measured up to 5 MHz. This function can be used in addition to +/- duty cycle measurement to analyse the active or inactive intervals of switching signals or logic signals. PW+/- pulse width measurement allows you to check electronic fuel injection systems and switching power supplies.

FLEXIBILITY

The RANGE function allows you to select the most suitable measurement range for the measurements in progress, either automatically or manually.

USER-FRIENDLY AND TIME-SAVING

The "user/basic" function saves the preferred settings when the instrument is powered down, on the basis of the user's preferences, so it is no longer necessary to repeat the settings!

Communication

- The ASYC IV models are equipped with a universal communication mode based on the SCPI standard, via USB or Bluetooth. The SX-DMM software provides a simple and effective way of viewing, processing and analysing the data. SX-DMM is delivered as standard and upgrades are available for download free of charge from our support website. The SX-DMM software allows real-time processing of the data on a PC, as well as instrument upgrades.
- In addition, the ANDROID application can be used to monitor measurement campaigns and view them remotely.



MTX 3290 & MTX 3291

These portable multimeters with digital display allowing direct measurement of the main electrical quantities benefit from an innovative design making them compact, rugged, watertight and comfortable to grip.

You can use these training multimeters in total safety in electrical engineering and electronics. The design of these 2 easy-to-use models is based on the principle of "1 key, 1 function". The dynamic recording functions (time/date-stamped Min, Max and AVG) are just as simple. Monitoring of voltage and current peaks enables you to capture all the faults very easily.

Simple multimeters

- Easy-to-read 70 x 52 mm LCD screen
- Contextual reminder of connection on the screen
- Current autoranging, single terminal up to 10 A
- Secondary measurements in addition to the main measurement to facilitate analysis
- Surveillance of the MIN/MAX and AVG data with relative time/date-stamping and of voltage and current peaks
- SX-DMM software for real-time processing of the data on a PC (MTX 3291)

And much more...

- IP67 protection against water projection and dust ideal for outdoor conditions
- Powered by 4 standard AA batteries or 4 Ni-MH batteries rechargeable with an HX0051B external module (option)
- Operation for up to 400 hrs on batteries



MTX 3290



MTX 3291

Type	Digital display	
Models	MTX 3290	MTX 3291
Display	digital monochrome 70 x 52 mm	backlight digital monochrome 70 x 52 mm
No. of counts	6 000 pts	60 000 pts
Power supply	4 x R6 batteries or 4 rechargeable batteries (external charger)	
Communication	-	IR/USB

	MTX 3290
Display resolution (counts)	6 k
VAC/DC/AC+DC	•
VLowZ	•
IAC / I DC	•
IAC+DC	•
IAC/DC direct reading	•
Resistance	•
Capacitance	•
Frequency meter	•
Audible continuity / Diode test	• / •
Température TC K / Pt100	- / •
dBm [/R] / dB [/Vref]	- / -
Resistive power	-
Duty cycle / Pulse width / Pulse counting	- / - / -
HOLD / Auto- HOLD	• / •
Min / Max / Avg	• / • / •
Peak+ / Peak- / CF	• / • / -
Relative measurements	
MATH function	-
Recording	-
USB communication / Bluetooth	-
CAT III / CAT IV	600 V / -
3-year warranty	•

MTX 3292B & MTX 3293B

These portable multimeters with graphical colour display allow direct measurement of the main electrical quantities and show the trends instantaneously. They benefit from an innovative design making them compact, rugged, leakproof and comfortable to grip. Their strengths lie in the product HMI, the advanced measurement functions and the help provided when measuring.

High-performance graphical multimeters...

- Easy-to-read 320 x 240-pixel colour matrix screen with black background
- Graphical display of the trends on a summary screen
- Trace, cursors and zoom on recordings
- Recording of up to 30 sequences

Dynamic loggers..

- Up to 30,000 measurements stored in memory
- Simplified setting of the number of measurements, interval, duration and storage capacity

- Internal storage of measurement 10 sequences
- Interactive zoom function + cursors on the recordings
- A simple surveillance mode displaying the time/date-stamped MIN/MAX and AVG values

... Et bien ... And much more!

- Contextual reminder of the connections
- Normal USB communication or Bluetooth available as an option IP67 protection against water projections and dust, ideal for outdoor conditions
- Ni-MH AA rechargeable battery, the best solution in terms of quality and price
- Operation for up to 100 hrs on batteries with management of the battery charge level
- No time-wasting: the instrument operates while charging

MTX 3291	MTX 3292B	MTX 3293B
60 k	100 k	100 k
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•
•	•	•
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• / • / -	• / • / •	• / • / •
•	•	•
-	•	•
-	10.000	30.000
•	• / • (option)	• / • (option)
1,000 V / 600 V	1,000 V / 600 V	1,000 V / 600 V
•	•	•

Type	Graphical	
Models	MTX 3292B	MTX 3293B
Display	Graphical colour (70 x 52 mm)	
Keypad	7 function keys + setup	
Power supply	4 x R6 batteries or 4 rechargeable batteries (internal charger)	
Communication	IR/USB	(Bluetooth as an option)
Storage	10,000 measurements	30,000 measurements

MTX 3292B



MTX 3293B



	MTX 3290	MTX 3291 *	MTX 3292B	MTX 3293B
DC, AC and AC+DC voltages	60 mV to 600 V	60 mV to 1 000 V	100 mV to 1 000 V	
DC accuracy	0.3 %	0.05 %	0.03 %	0.02 %
AC and AC+DC bandwidth	20 kHz	100 kHz	100 kHz	200 kHz
DC, AC and AC+DC current	600 µA to 10 A /20 A (30 s max)*		1000 µA to 10 A /20 A (30 s max)	
DC accuracy	0.8 %		0.08 %	
Frequency	60 Hz to 600 kHz		10 Hz to 5 MHz	
Resistance	600 Ω to 60 MΩ		100 Ω to 100 MΩ	
Audible continuity	600 Ω SIGNAL < 30 Ω ±5 Ω < 5 V		1000 Ω SIGNAL < 20 Ω < 3.5 V	
Diode test	3 V with 1 mV resolution		Diode 0 -2.6 V < 1 mA + Zener Diode or LED 0-20 V < 11 mA	
Capacitance	6 nF to 60 mF		1 nF to 10 mF	
Temperature PT100/1000	-200 °C to 800 °C			
Temperature TK/TJ	-		-40 to +1 200 °C	

OTHER FUNCTIONS

Surveillance	Time/date-stamped MAX/MIN /AVG or PEAK ±, on all the main positions	SURV time/date-stamped MAX/MIN /AVG or PEAK ±, on all the main positions + waveform
REL	REL relative value + measured reference value on secondary display*	Display of measured value and, on 3 secondary levels, the REF value, the difference expressed in the measurement unit and the difference in %
PWM filter	4th-order 300 Hz low-pass filter for measuring on variable speed drives of asynchronous motors	
V-output clamp function for direct reading	Integration of the ratio: 1/1, 1/10, 1/100, 1/1000 mV/A	Parameterizable Ax ratio
Secondary functions or measurements	dBm and VA resistive power, +/- duty cycle, and pulse width*	
SPEC	-	Display of measurement tolerance: Smin, Smax
GRAPH	-	Main measurement trend on adjustable time base + Cursor with waveform up to 600 Hz
Central zero	Selectable or automatic* bargraph for VDC and IDC	Bargraphe automatique tendance
Measurement storage	-	10,000 30,000

GENERAL SPECIFICATIONS

Type of display	LCD with backlighting* and digits 14 mm high – Double 60,000* or 6,000-count display	Colour graphical display (70 x 52) with backlighting on 4 100,000-count displays
PC interfaces	- USB optical connector & SX-DMM software	USB optical connector or Bluetooth (option)– SX-DMM software Application ANDROID
Power supply	4 x AA batteries or Ni-MH batteries	
Safety / EMC	Safety as per IEC 61010-1 1,000 V-CAT III/600 V CAT IV* or 600 V CAT III /300 V CAT IV - Safety as per IEC 61010-2-033	Safety as per IEC 61010-1 1,000 V-CAT III /600 V CAT IV Safety as per IEC 61010-2-033
Environment	Storage -20 °C to +70 °C – Operation -10 °C to +55 °C	
Mechanical specifications	Dimensions (L x P x H): 196 x 90 x 47.1 mm – Weight: 570 g	
Warranty	3 years	

STATE AT DELIVERY

- MTX 3290 delivered with 4 x 1.5 V alkaline batteries, 1 red straight/straight lead 1.5 m long, 1 black straight/straight lead 1.5 m long, 1 red CAT IV 1 kV test probe, 1 black CAT IV 1 kV test probe, 1 user's manual on CD and 1 start-up guide on paper.
- MTX 3291 delivered with 4 x 1.5 V alkaline batteries, 1 red straight/straight lead 1.5 m long, 1 black straight/straight lead 1.5 m long, 1 red CAT IV 1 kV test probe, 1 black CAT IV 1 kV test probe, 1 user's manual on CD and 1 start-up guide on paper plus 1 bag, 1 USB cable with SCPI remote programming manual and SX-DMM software.
- MTX 3292 and MTX 3293 delivered with 1 bag, 4 NI-MH 2,400 mA 1.5 V rechargeable batteries, 1 charger, 1 red straight/straight lead 1.5 m long, 1 black straight/straight lead 1.5 m long, 1 red CAT IV 1 kV test probe, 1 black CAT IV 1 kV test probe, 1 optical USB cable + SX-DMM software, 1 user's manual on CD and 1 SCPI remote programming manual and 1 start-up guide on paper.

REFERENCES

1 MTX 3290 multimeter	MTX3290
1 MTX 3291 multimeter	MTX3291
1 MTX 3292B multimeter	MTX3292B
1 MTX 3293B multimeter	MTX3293B
1 MTX 3292B multimeter version Bluetooth.....	MTX3292B-BT
1 MTX 3293B multimeter version Bluetooth	MTX3293B-BT

OPTIONS

MTX329XB graphical colour calibration software.....	HX0059B
MTX digital DMM transport kit	HX0052B
Graphical colour DMM transport kit.....	HX0052C
MTX 3290 / 3291 calibration software.....	P01196770
Kit of 4 external Ni-MH rechargeable batteries.....	HX0051B
MTX 328X and MTX 329X external battery charger (4 batteries incl.)	HX0053B
USB Bluetooth modem.....	P01102112


FRANCE

Chauvin Arnoux
12-16 rue Sarah Bernhardt
92600 Asnières sur seine
Tél. : +33 1 44 85 44 85
Fax : +33 1 46 27 73 89
info@chauvin-arnoux.fr
www.chauvin-arnoux.fr

INTERNATIONAL

Chauvin Arnoux LTD
Unit 1 Nelson Ct, Flagship Sq, Shaw Cross Business Pk
Dewsbury, West Yorkshire - WF12 7TH
Tel: +44 1924 460 494
Fax: +44 1924 455 328
info@chauvin-arnoux.co.uk
www.chauvin-arnoux.com

MIDDLE EAST

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

Information and orderings