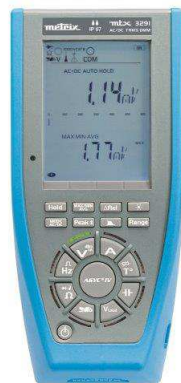


ASYC IV Digital Multimeters
6,000 and 60,000 counts
TRMS AC, DC and AC+DC



	Digital display	
Models	MTX3290	MTX3291
Display	Digital monochrome 70 x 52 mm	Backlit digital monochrome 70 x 52 mm
Counts	6,000 cts	60,000 cts
Power supply	4 x R6 batteries (AA format) or 4 rechargeable batteries	
Communication	-	IR/USB

These portable multimeters with digital display provide direct measurements of the main electrical quantities. Their innovative design ensures that they are compact, rugged, leakproof and comfortable to hold.

These training multimeters can be used in total safety in both **electrical engineering and electronics**:

- **Extra-large digital monochrome screen** with bargraph and display of measurements simultaneously, with 6,000 or 60,000 counts
- **Intuitive digital keypad** with lighting for active settings: a **LED indicates the active function**.
- **Clamp function** by direct current reading by integrating the ratio of 1/1, 1/10, 1/100 or 1/1,000 A/mV
- Current autoranging with **single A terminal** up to 10 A (single fuse)
- up to 1,000 V for voltage with **warning** if a hazardous voltage is present on the instrument's terminals
- Explanatory on-screen **reminder** of the measurement-**input connection** conditions
- High-performance **TRMS AC and AC+DC** measurements with 60,000 display counts on 100 kHz bandwidth
- IEC 61010, double insulation, 600 / 1,000 V (depending on the model) Cat III and **IP67 reinforced ingress** protection
- A PWM **low-pass filter** which can be selected for your measurements on variable speed drives (asynchronous motors)
- Bargraph with automatic or manual central zero, depending on the model
- **Secondary measurements** for closer analysis: counting, pulse width, gain measurement, resistive power, etc.
- A **V lowZ** low input impedance mode to eliminate stray voltages and stabilize the measurement
- **MIN/MAX/AVG monitoring** of your measurements with relative time/date-stamping and **Signed Peak**
- Display and storage of the reference value and the differential value in the unit of the quantity measured **RELative mode**
- Automatic power-off function, with possibility of deactivation: Permanent mode
- Compliance with the EMC standards and the low-voltage directives
- Double insulation, **1,000 V Cat III /600V Cat IV** (MTX3291) and **600 V Cat III/300V Cat IV** (MTX3290)
- Isolated optical communication (MTX3291) and the approved SX-DMM software offering a wide range of additional tools.

Technical specifications		MTX3291 *			MTX3290		
DC, AC and AC+DC voltages							
Range	60 mV*	600 mV	6 V	60 V	600 V	1,000 V	
Resolution*	0.001 mV	0.01 mV	0.0001 V	0.001 V	0.01 V	0.1 V	
DC accuracy		0.05%		I		0.3%	
AC and AC+DC bandwidth		100 kHz		I		20 kHz	
AC and AC+DC basic accuracy		0.5%		I		0.8%	
VlowZ AC basic accuracy (300 kOhm)			0.5%	I		0.2%	
DC, AC and AC+DC current							
Range	600 µA*	6 mA	60 mA	600 mA	6 A	10 A /20 A (30s max)	
Resolution*	0.01 µA	0.1 µA	0.001 mA	0.01 mA	0.01 A	0.1 A	
DC accuracy				0.8%			
AC and AC+DC bandwidth		20 kHz		I		10 kHz	
AC and AC+DC accuracy		0.8%		I		1.2%	
Frequency							
Frequency range	60 Hz	600 Hz	6 kHz	60 kHz	600 kHz		
Resolution*	0.01 Hz	0.1 Hz	1 Hz	10 Hz			
Resistance and continuity							
Ranges	600 Ω	6k Ω	60k Ω	600KΩ	6M Ω	60M Ω	
Resolution*	0.01 Ω	1 Ω	10 Ω	100 Ω	1kΩ	10k Ω	
Basic accuracy		0.2%		I		0.5%	
Protection	Electronic protection						
Audible continuity detection	600 Ω SIGNAL < 30 Ω +/-5 Ω < 5V						
Diode test							
Voltage measurement	3V with 1mV resolution + BEEP < 40 mV +/-10 mV						
Capacitance							
Ranges	6 nF	60 nF	600 nF	6 µF	60 µF	600 µF	6 mF 60 mF
Resolution*	0.001 nF	0.01 nF	0.1 nF	0.001 µF	0.01 µF	0.1 µF	1 µF 10 µF
Temperature with Pt100/1,000							
Operating range	-200°C to 800°C						
Accuracy	0.1 % of reading						
Other functions							
MAX/MIN /AVG or PEAK +/-	On all the main positions						
DELTA REL	REL relative value + secondary display with measured reference value						
PWM filter	4th-order 300 Hz low-pass filter for measurements on variable speed drives (asynchronous motors)						
Clamp function with V output and direct readings	Integration of 1/1 ,1/10,1/100 or 1/1,000 ratio						
Secondary functions	DBm and resistive power in VA, duty cycle +/- and pulse width						
Central zero	Selectable or automatic* for VDC and IDC						
USB communication							
With SX-DMM							
General specifications							
Type of display	LCD with backlighting*, digit height 14 mm Double 60,000* or 6,000-count display						
PC interfaces	USB optical connection – SX-DMM software						
Power supply	4 x AA batteries or Ni-MH rechargeable batteries						
Safety / EMC	Safety as per IEC 61010-1 (2001), 1,000 V CAT III / 600 V CAT IV* or 600 V CAT III /300 V CAT IV – EMC as per EN61326-1						
Environment	Storage -20 °C to +70 °C – Operation 0 °C to +40 °C						
Mechanical specifications	Dimensions (L x W x H): 196 x 90 x 47.1 mm – Weight: 570 g						
Warranty	3 years						

To order

MTX3290 delivered with **❶**

4 x 1.5 V alkaline batteries
 Cable 1.5 m long, straight/straight, red
 Cable 1.5 m long, straight/straight, black
 Red CAT IV 1 kV test probe
 Black CAT IV 1 kV test probe
 User's guide on CD and Startup Guide on paper

MTX3291: same as **❶** plus bag,
 USB cable, remote programming instructions
 and SX-DMM software



FRANCE
 Chauvin Arnoux
 190, rue Championnet
 75876 PARIS Cedex 18
 Tel: +33 1 44 85 44 38
 Fax: +33 1 46 27 95 59
 export@chauvin-arnoux.fr
 www.chauvin-arnoux.fr

UNITED KINGDOM
 Chauvin Arnoux Ltd
 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

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