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AC+DC AUTO HOLD

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453.55ml

0.708KHz

MTX 3297E_X

TRMS digital multimeter with intrinsic safety











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MTX 3297Ex, the ideal digital multimeter for your electrical measurement work in explosive Ex zones.



In the presence of explosive dust

Approved and certified for the highest levels of risk. An exceptional multimeter which meets the strictest requirements.



The MTX 3297Ex

is certified as 😥 and 🗳 for the following zones:



IIC (gas) 0, 1 and 2



IIIC (dust) 20, 21 and 22



Mines M1

for **permanent** use in the oil, chemicals, agri-food, cosmetics and pharmaceutical industries, as well as cement production and mining.

Ex certification has been adopted by the countries in the European Union and several other European countries.

IEC Ex certification, developed by **the International Electrotechnical Commission (IEC)**, aims to harmonize and simplify the certification of equipment for hazardous zones worldwide.

MTX 3297Ex Unrivalled ergonomics and rugged design



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Very high industrial performance



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Range

Outside explosive zones, the **MTX 3297Ex** is a high-performance industrial multimeter compliant with the **IEC 61010-2-033 standard** for work on **1000 V CAT III / 600 V CAT IV** electrical installations.

High performance for reliable, accurate measurements whatever the type, shape and amplitude of the signal

- TRMS AC+DC acquisition
- 60,000-count resolution
- 100 MHz bandwidth
- 1 µV resolution for voltage, 0.01 µA resolution for current

Functions to help with analysis and troubleshooting

- Min, MAX, Peak+ and Peak- functions
- ΔX differential and ΔX /X relative functions
- · Low-pass filter for measurement on PWM signals
- V_{Lowz} low-impedance DC voltage in the presence of disturbance voltages



When used with the SX-DMM software for PC, the isolated optical communication allows realtime processing of the data, remote control of the MTX 3297Ex, upgrading and maintenance.

Designed and manufactured in France

3-vear

warranty

MTX 3297Ex Efficiency and productivity in all circumstances

Whatever your industrial activity, the **MTX 3297Ex** multimeter fulfils all your requirements for electrical measurement, while remaining **simple to use** and comfortable to handle.

This multimeter guarantees **excellent measurement reliability**, **electrical safety** in your work and higher productivity in your activity.



Electricity generation (coal-fired power plants, gas-fired plants, hydroelectric plants, etc.)



Processing industries (wood, metals, etc.)



Process industries (chemicals, pharmaceuticals, cosmetics, etc.)



Arms industry and ordnance devices (explosives, gunpowder, etc.)



Agri-food industries (flour, cereals, etc.)



Industrial paint shops (automotive, rail, etc.)



MTX 3297Ex All-round versatility

Simplify your work and **boost your efficiency** thanks to the **versatility** of the **MTX 3297Ex**, offering accuracy, reliability and multifunctionality to fulfil all your expectations in terms of industrial maintenance and electrical diagnostics.



INDUSTRIAL MAINTENANCE AND TROUBLESHOOTING

Measurement quality and performance for troubleshooting faults on motors, PLCs and other equipment

- TRMS AC+DC acquisition
- 60,000-count display
- Resolution from 1 µV for voltage and 0.01 µA for current

Functions to help with analysis and diagnostics

- Min, MAX, Peak+ and Peak- functions
- ΔX differential and ΔX /X relative functions

Measurement, verification and adjustment of the parameters, their constants and the way they change.

- Low-pass filter for measurement on PWM signals
- V_{LowZ} low-impedance DC voltage in the presence of disturbance voltages



ELECTRICAL MAINTENANCE

All the features and functions of a conventional multimeter

- Voltage, current and resistance measurements
- Audible continuity, diode test, etc.
- Capacitance and temperature
- TRMS AC+DC acquisition



The multimeter's performance features and specifications remain the same thanks to its IP67* liquid and dust-proofing.

*Out of operation



TECHNICAL SPECIFICATIONS

DC, AC and AC+DC voltages			
V DC	Measurement range	0.001 mV to 1000.0 V DC	
	Uncertainty	0.05 % + 25 cts	
V AC, V AC+DC	Measurement range	0.001 mV to 1000.0 V AC or AC+DC	
	AC, AC+DC uncertainty / Bandv	vidth 0.05 % + 25 cts. 0.05% + 40 cts / 100 kHz	
V _{LOWZ}	Measurement range	0.01 mV to 1000.0 V	
	Uncertainty / Bandwidth	0.05 % + 25 cts / 300 Hz	
Qualified mea	asurement range in Ex zones	0.001 mV to 65.00 V	
DC, AC & AC+DC currents (protectio	n by fuse)		
A DC	Measurement range	0.01 µA to 10.00 A DC (max. 20 A/30 s)	
	Uncertainty	0.8 % + 20 cts	
A AC, A AC+DC	Measurement range	0.01 µA to 10.00 A AC or AC+DC (max. 20 A/30 s)	
	Uncertainty / Bandwidth	1.0 % + 25 cts / 20 kHz	
Qualified mea	asurement range in Ex zones	0.01 µA to 5.00 A	
with external sensor (clamp)	ernal sensor (clamp) up to 6,000 A depending on sensor, transformation ratio 1, 10, 100, 1,000 mV/A		
Frequency			
Hz	Measurement range	10.00 Hz to 200.0 kHz (for V), 20.00 kHz (for A)	
	Uncertainty	0.1 % + 1 ct	
Resistance & Continuity, Diode			
Ω	Measurement range	0.00 Ω to 60.000 MΩ	
	Uncertainty	0.1 % + 20 cts	
Continuity	Audible signal < 30 \pm 5 Ω / < 5 V, l < 1.1 mA		
Diode test	3.000 V, 1 % + 30 cts / U < 5 V, I < 1.1 mA		
Capacitance			
nF/µF/mF	Measurement range	0.100 nF to 60.000 mF	
	Accuracy/resolution	1 % + 10 cts	
Temperature Pt100/Pt1000			
°C/°F	Measurement range	-200.0 °C to +800.0 °C	
	Uncertainty	0.1 % ± 1.5°C	
Other measurements			
Main measurement	Conductance		
Secondary measurements	Duty cycle, pulse width, resistive power (U ² /R), dBm		
Functions			
MAX/Min/AVG, Peak+/Peak-	100 ms on all the main measurements except Peak (1 ms)		
$\Delta REL, \Delta REL/R$	Differential value, relative value		
PWM filter	4th-order 300 Hz Iow-pass filter		
General specifications			
Display	Double 60,000-count LCD screen with 3-level backlighting		
Power supply	4 x AA/FR6 Li-FeS2 Ex-qualified batteries / Battery life 350 h		
Compliance outside Ex zones	IEC 6010-2-033 1000V CAT III/600V CAT IV, EN 61326-1 Class B		
Ingress protection / Environment	IP 67* / Storage -20°C to +70°C, Use -10°C to +55°C		
Mechanical specifications	Dimensions (L x W x H) : 196 x 90 x 47.1 mm – Weight: 715g		
Warrantv	3 vears		

PACIFIC TEST EQUIPMENT Available across Australia and New Zealand Tel: +61 2 9659 2300 Email: sales@pacifictest.com.au www.pacifictest.com.au



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