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ASYC
Instruments
Introduces a NEW
Intrinsically Safe
TRMS Digital
Multimeter Model
MTX 3297Ex

ASYC MTX 3297Ex Multimeter Performance in Explosive Zones Owner's Manual

Contents

ASYC

ASYC MTX 3297Ex Multimeter Performance in Explosive Zones

Specifications

- Model: MTX 3297Ex
- Type: Intrinsically safe TRMS digital multimeter
- Designed for: Electrical measurement work in potentially explosive (Ex) areas
- Certifications: ATEX/IECEx certified for mines and in the presence of gas and explosive dust

Product Usage Instructions

1. Safety Precautions:

Before using the MTX 3297Ex multimeter, ensure you have read and understood the user manual completely. Always follow the safety guidelines provided to prevent accidents.

2. Powering On:

To power the multimeter, press the power button located on the device. Ensure that the device displays the correct readings before use.

3. Measurement:

Choose the appropriate measurement function using the dial on the multimeter. Connect the probes to the circuit or component you want to measure. Read and record the measurement displayed on the screen.

4. Switching Off:

After use, turn off the multimeter by pressing the power button again. Store the device in a safe and dry place.

FAQs

- **Q: Can I use the MTX 3297Ex multimeter in non-explosive environments?**
  - A: While the MTX 3297Ex is designed for use in potentially explosive areas, it can also be used in regular

electrical measurement tasks outside of Ex conditions.

- **Q: How do I calibrate the multimeter?**
    - A: Calibration instructions are provided in the user manual. It is recommended to calibrate the multimeter periodically to ensure accurate readings.
- **Q: Is the MTX 3297Ex waterproof?**
    - A: The MTX 3297Ex is not waterproof. Avoid exposing it to water or moisture to prevent damage.

PRODUCT INFORMATION

(for permanent use in Ex explosive atmospheres)

The Model MTX 3297Ex is an intrinsically safe TRMS digital multimeter designed for electrical measurement work in potentially explosive (Ex) areas. It is the highest industrial performing multimeter inside and outside Ex conditions. A major innovation in the Instrumentation market! It is rugged, ergonomic, and accurate thus maintaining the highest electrical safety. The ASYC IV Series MTX 3297Ex multimeter is ATEX/IECEx certified for mines and in the presence of gas and explosive dust (<65 V and <5 A RMS). This portable multifunctional meter measures voltage, current, resistance, capacitance, frequency, temperature, and diodes. The MTX 3297Ex comes with ATEX-installed batteries, leads, probes, a quick start guide, a test report, a certificate of conformity, and SX-DMM software

FEATURES

- Certified for IIC (gas) zones 0, 1, and 2, IC (dust) zones 20, 21, and 22, and Mines (firedamp), allowing permanent use in the oil, chemicals, pharmaceutical, and mining industries (see website for NEC equivalent)The
- 60,000-count resolution, TRMS AC+DC/AC/DC, 0.05% basic accuracy and 100 kHz bandwidth
- Large (2.75 x 2) inch backlit screen with dual display
- Resolution from 1 µV for voltage and 0.01 µA for current
- Intuitive electronic function switch with backlit keys
- A terminal strip at the top of the display, complete with a reminder and connection check feature
- An isolated optical communication for seamless data processing, real-time monitoring, and easy software upgrades when paired with the SX-DMM software
- Voltage, current, and resistance measurements
- Min, MAX, AVG, Peak,+ and Peak- functions
- ΔX differential and ΔX/X relative functions
- Low-pass filter for measurement of PWM signals
- LowZ low-impedance DC voltage in the presence of disturbance voltages
- Audible continuity, diode test
- Capacitance and temperature
- Molded red casing offers excellent grip and optimum protection against shocks and falls.
- IP67 rating for liquid and dust proofing (out of operation)
- Safety rating: 1000 V CATIII / 600 V CATIV, complies with IEC 61010-2-033 standard and usable outside Ex areas

TARGET MARKETS & APPLICATIONS

- Industrial Industries
- Plant Maintenance
- Agri-food Industries
- Arms Industry and Ordnance Devices
- Electricity Generation
- Electrical Maintenance
- Chemical Industries
- Process and Processing Industries

ORDERING INFORMATION

Cat. #2154.11 – Model MTX 3297Ex Price: $1,899.00

Digital Multimeter Model MTX 3297Ex (EX/IECEx, Intrinsically Safe TRMS, AC/DC) Includes: Meter, set of color-coded leads and test probes (red/black), batteries (installed), quick start guide, test report and certificate of conformity

REPLACEMENTS (for use in Ex Zones)

- **Cat. #5000.94 – Leads Price: $26.50**
- Set of (2) 5 ft silicone color-coded w/ 4 mm straight/right angle banana plugs (1000 V CAT IV, UL V2)
- **Cat. #5000.97 – Probe Price: $9.00**
- Black Test Probe (1000 V CAT IV, 15 A, UL V2)
- **Cat. #5000.98 – Probe Price: $9.00**
- Red Test Probe (1000 V CAT IV, 15 A, UL V2)
- **Cat. #5100.20 – Battery Price: $64.00**
- Set of (4) 1.5 V AA Ex Lithium batteries for Model MTX 3297Ex
- **Cat. #5100.21 – Fuse Price: $30.80**
- Set of (1) 10 A, 1000 V, (10 x 38) mm, Ex for Model MTX 3297Ex

CONTACT INFORMATION

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Documents / Resources

 ASYC MTX 3297Ex Multimeter Performance in Explosive Zones [pdf] Owner's Manual
MTX 3297Ex Multimeter Performance in Explosive Zones, MTX 3297Ex, Multimeter
Performance in Explosive Zones, Performance in Explosive Zones, Explosive Zones, Zones

References

- **aemc.com/info/search.cfm?keyword=5000.94**
- **aemc.com/info/search.cfm?keyword=5000.97**
- **aemc.com/info/search.cfm?keyword=5000.98**
- **aemc.com/info/search.cfm?keyword=5100.20**
- **aemc.com/info/search.cfm?keyword=5100.21**
- **aemc.com/products/multimeters/multimeter-3297Ex**
- **User Manual**