

MTX 3292/MTX 3293, ASYC IV Portable Digital Multimeter - 1 00,000 cts

X04002A02 - Ed. 1 - 07/14

The full user's manual is available on the CD supplied with the instrument.
instrument. Download is possible from our support site:
www.chauvin-armoux.com.

This multimeter complies with the EN 61010-1 safety standard on double insulation for electronic measuring instruments.
IP 67 as per standard IEC 60529.

Symbols used on the instrument:



Warning: Risk of danger.

Refer to the user's manual to find out about the potential dangers and any action to be taken in order to avoid them.



Earth



Double insulated

If you use this instrument in a way which is not specified, the protection provided may be compromised, thus endangering you.
The safety of any system including this instrument is the responsibility of the assembler of the system.

This instrument has been designed for use indoors:

- in an environment with pollution level 2,
- at an altitude of less than 2000 m,
- at a temperature between 0°C and 50°C,
- with relative humidity < 80 % up to 35°C.

It can be used for measurements on the circuits of:

- **Category III installations** for voltages up to 1,000 V (AC or DC) relative to earth.

- **Category IV installations** for voltages up to 600 V (AC or DC) relative to earth.

- **CAT III:** Measurement category III corresponds to measurements carried out on installations in buildings.

Example: measurements on switchboards, wiring, etc.

- **CAT IV:** Measurement category IV corresponds to the measurements carried out on the source of low-voltage installations.

Example: meters and measurements on the safety devices protecting against overcurrents, etc.

For safety reasons, only use suitable cords supplied with the instrument: they comply with the EN 61010-031 standard. Before each use, make sure that they are in perfect condition.

When the instrument is connected to the measuring circuits, never touch a terminal which is not in use. Use only suitable accessories delivered with the instrument or approved by the manufacturer.

If the measurement category of the accessory is different from that of the instrument, the lowest category applies to the unit.



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	MTX 3292	MTX 3293
Display	Graphic color (70 x 52)	
Power supply	4 R6 batteries (AA format) or rechargeable batteries	
Counts	100 000	
Communication	IR / USB (Bluetooth, optional)	

We thank you for your confidence in the quality of our products.

- Fuse and batteries or rechargeable batteries:

Fuse: 11 A: 10 x 38 - 1000 V

F - breaking capacity: > 18 kA

4 batteries: 1,5 V AA LR6 or batteries 1,2 V Ni-IMH LSD



- Terminal block: with 3 4-m banana inputs and an optical connector for USB communication:



- Display of the connection on the screen:



Voltage: VAC, VDC, VAC+DC

1. Activate "V", then press F1, F2, F3, F4 to select the coupling:

- AC,
- DC,
- AC+DC or
- VlowZ.

Configuration **SETUP** → **MEASURE** to adjust the parameters: filters, impedance, reference...

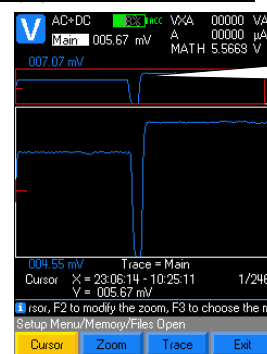
2. Graphic mode (default), but select:

- **Meas...** for another display
- **MEAS+** to select a secondary function
- **REL** relative measurement
- **SURV** for MIN/MAX/AVG (time-stamped)
- **SPEC** to get the specs

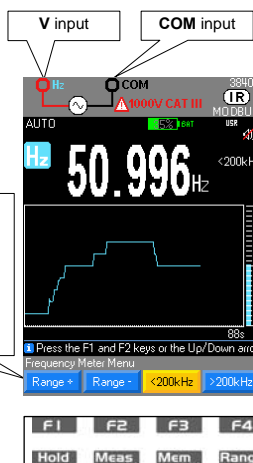


3. Select **Mem...** to save or stop a sequence (10 max. and 6,500 measurements)
Consult data by long press on **Mem...**

Graphic display of Mem... in VAC+DC mode:



Frequency: Hz



2. Select **Range ±**, frequency range and
< 200 kHz or
> 200 kHz
by the keys

1. Activate **Hz**.

3. Select **Meas...**, then **MEAS+** to select a secondary function among: **MATH**, **DCY**, **PER**, **PW+/-**, **CNT+/-** or:
 - **REL** relative measurement
 - **SURV** for time-stamped MIN/MAX/AVG
 - **SPEC** to obtain the specifications.

Resistance: Ω, Diode, Continuity



1. Activate **Ω** by pressing this key:

- **F2** accesses (continuity),
- **F3** accesses 100 Ohm range
- **F4** selects the diodes → (4V or 26V diode test) or subsequent presses

2. Select **Meas...**, then **MEAS+** for the **MATH** secondary function, or:
 - **REL** relative measurement
 - **SURV** for time-stamped MIN/MAX/AVG
 - **SPEC** to obtain the specifications.

Capacitance: F



RUN is displayed when the measurement is running and **OL** is displayed if the value is > range or if there is a short-circuit.

1. Activate **C** by pressing this key.

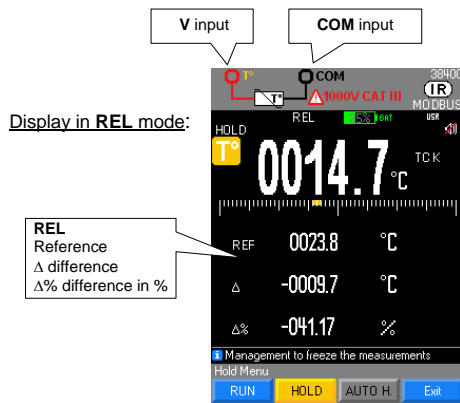
- Pressing:
- **F1** accesses **Range+**
 - **F2** accesses **Range-**

Select ranges by those keys

2. Select **Meas...**, then:

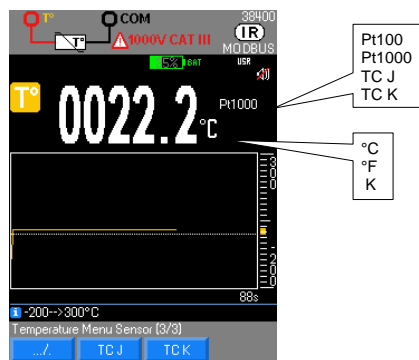
- **REL** relative measurement
- **SURV** for time-stamped MIN/MAX/AVG
- **SPEC** to obtain the specifications.

Temperature: °C, °F, K in TK/TJ or Pt100/Pt1000

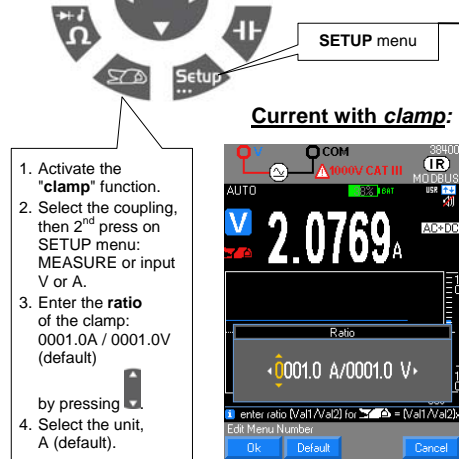
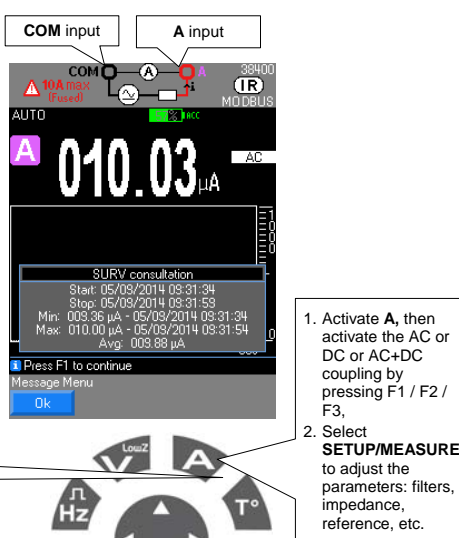


- Activate T°.
- 1st press on F1 / F2 / F3 → °C, °F, K
 - 2nd press → Pt100, Pt1000
 - 3rd press → TC J or TC K.

°C by Pt1000 graphic display:

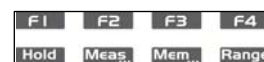


Direct measurement of current:



Secondary modes accessible via MEAS...:

- TREND:** graphic display
- REL:** relative mode (REF, Δ, Δ%)
- SURV:** surveillance mode (MIN, MAX, AVG)
- SPEC:** specifications (SMIN, SMAX, %, digits)
- MEAS+:** to access the secondary functions



Activate or deactivate the selected mode by pressing the **MEAS...** key then F1 / F2 / F3 / F4.

SETUP Menu:

This **SETUP** menu sets the parameters through main adjustments and 3 levels:

1. General Setup

- Util:** lighting, standby, beep, language, clock
- Comm:** IR or BT type, baud IR, protocol: SCPI or MODBUS
- Power supply:** battery or rechargeable battery, capacity

2. Measurement config

- Measure:** filter on or off, impedance, reference, dBm and W
- Clamp:** V or A measurement, ratio, unit
- Math:** measurement, coefficient A and B, unit

3. Configuration and MTX identification

- Memory:** files, numbers of recordings, frequency
- Config:** factory configuration, USER or BASIC start
- About:** model, serial number, software version

SURVEILLANCE mode: MEAS/SURV



Activate or start, deactivate or stop the **SURV** mode by pressing on F1/F2.

Pressing F3 in SURV opens a consultation window of **CONSULT** records:



MATH function:

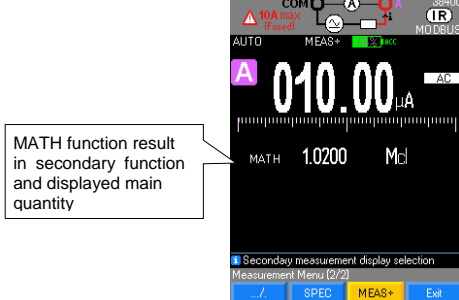
Function $Ax + b$ configurable to obtain a direct reading of the original quantity.

- Open "Menu" using the **SETUP** key, then **MATH**.
- Select the **V, A, Ω** or **Hz** function by the keys: F1, F2, F3, F4.
- Select and enter the **A** or **B** coefficients.
- Select the unit.

Parameters to be adjusted:



MATH function, recall in the secondary function:
V Meas... / MEAS+:



Memory mode: Mem...

- Activation by the **SETUP** menu or long press on **Mem**:
- Select and modify the parameters:
 - Files:** list of the stored files, by date and time
 - Nb. rec.:** number of recordings → max. 6500
 - Freq:** recording frequency in h, min, s



Activate / deactivate the **MEM** auto recording mode by a short press: max.10 sequences

- A long press on **Mem...** opens the record consultation menu: File → F1:
- Display or open the list by F1.
 - Select a file with the keys
 - Validate it to display by the F1 key, then **Open**.
 - Erase** a sequence or **Erase all** memory sequences.

