

MTX 3292B / 3293B, ASYC IV

Portable 100,000 cts Graphic Multimeter

This guide is available in various languages on the CD supplied with the instrument.

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

A complete user's manual is also provided on the CD supplied with the instrument.

It can be downloaded from : www.chauvin-arnoux.com.

Attention : for your safety and to protect your property, please read carefully the safety datasheet enclosed with your instrument.

This multimeter complies with the EN 61010-2-033 CAT IV 600 V – CAT III 1000 V, safety standard on double insulation for electronic measuring instruments. IP 67 as per standard IEC 60529. Then, if the instrument is immersed, it must be dried, in particular the terminal block, before it can be used again.

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.

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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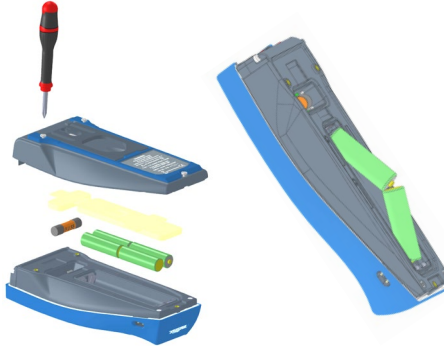


X04856A02_Ed1_11/2018

	MTX 3292B	MTX 3293B
Display	Graphic color (70 x 52)	
Power supply	1 set of AA/R6 batteries or 1 set of 4-Ni-Mh storage batteries	
Counts	100 000	
Communication	IR / USB (Bluetooth, optional)	

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 MH LSD



TERMINAL BLOCK

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** → **MESURE** to adjust the parameters : filters, impedance, reference...

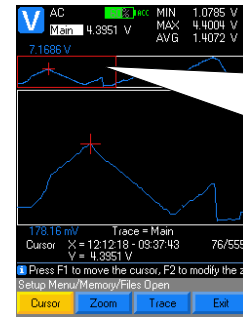


2. Graphic mode (default), but select **Meas** for another display
 - **GRAPH** graphical history of the measurements
 - **REL** relative measurement
 - **SURV** for MIN/MAX/AVG (time stamped)
 - **SPEC** to get the specs
 - **MEAS+** to select a secondary function
 - **WFORM** wave form



3. Select **Mem...** to save or stop (up to 30 000 measurements, depending on model)
 Consult data by long press on **Mem...**

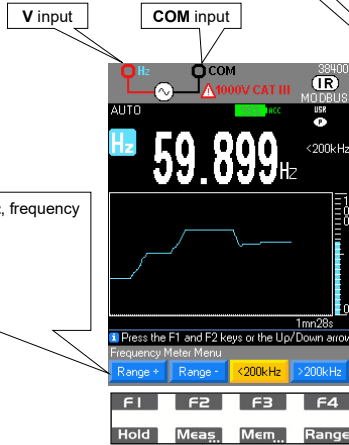
GRAPHIC DISPLAY OF Mem IN VAC+DC MODE



Delimitation of the enlarged area.
 Use F1/F2/F3 to select the object to be modified (cursor, Zoom or Trace) and the arrows to change the value.

FREQUENCY : Hz

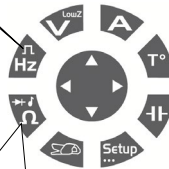
1. Activate Hz



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

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

RESISTANCE : Ω, DIODE, CONTINUITY



1. Activate **Ω**, by pressing this key :
 - F2 accesses Ω (continuity)
 - F3 accesses 100 Ohm range
 - F4 selects the diodes (4 V or 26 V diode test) or subsequent presses
2. Select **Meas...**, then
 - **REL** relative measurement
 - **SURV** for time-stamped MIN/MAX/AVG
 - **SPEC** to obtain the specifications
 - **MEAS+** for the **MATH** secondary function

CAPACITY : -fF



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

1. Activate **-fF**, by pressing this key.
 Pressing :
 - F1 accesses **Range+**
 - F2 accesses **Range-**
2. Select **Meas...**, then :
 - **REL** relative measurement
 - **SURV** for time-stamped MIN/MAX/AVG
 - **SPEC** to obtain the specifications.

TEMPERATURE

°C, °F, K in TL/TJ or Pt100/Pt1000



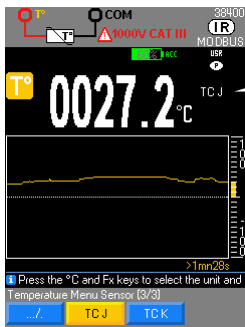
Display in REL mode :

REL
Reference
Δ Difference
Δ% difference in %
A long press on Meas... resets the reference.

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 :



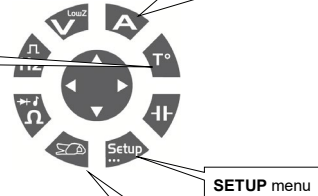
Pt100
Pt1000
TC J
TC K

DIRECT MEASUREMENT OF CURRENT : A

COM input A input

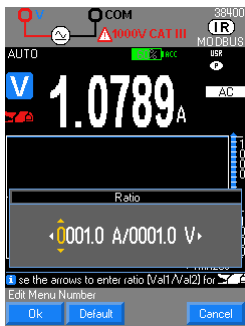


1. Activate **A** and then press **F1, F2, F3** to choose the coupling :
 - AC,
 - DC or
 - AC+DC
2. Select **SETUP** → **MESURE** to adjust the parameters : filters, impedance, reference, etc.



SETUP menu

CURRENT WITH CLAMP



1. Activate the « clamp » function.
2. Select the coupling, then 2nd press on **SETUP** menu : **MESURE** or input **V** or **A**.
3. Enter the **ratio** of the clamp
0001.0 A / 0001.0 V
(default) by pressing ↓
4. Select the unit, **A** (default).

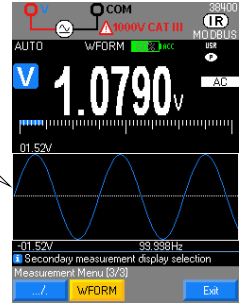
SECONDARY MODES ACCESSIBLE VIA MEAS...



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

- **GRAPH** : 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
- **WFORM** : to view the waveform

Select the **V** or **A** waveform. The **Waveform** mode is only available in AC for frequencies between 10 and 600 Hz. It can be used to view the waveforms and displays the MIN and MAX



SETUP MENU :

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

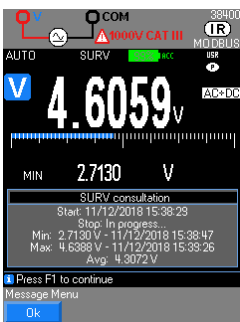
1. **General Setup**
 - **Util** : lighting, standby, beep, language, clock
 - **Com.** : IR or BT type, baud IR, protocol : SCPI or MODBUS
 - **Power supply** : battery or rechargeable battery, capacity
2. **Measurement configuration**
 - **Measure** : filter on or off, impedance, reference, dBm and W
 - **Clamp** : V or A measurement, ratio, unit
 - **Math** : measurement, serial number, software version
3. **Configuration et personnalisation MTX**
 - **Memory** : files, numbers or 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** record :



MATH FUNCTION

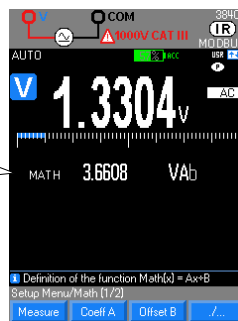
Function $Ax + B$ configurable to obtain a direct reading of the original quantity.

1. Open « Menu » using the **SETUP** key, then **MATH**.
2. Select the **V, A, Ω** or **Hz** function by the keys **F1, F2, F3, F4**.
3. Select and enter the **A** or **B** coefficients.
4. Select the unit.

Parameters to be adjusted :



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



MATH function result in secondary function and displayed main quantity.

MEMORY MODE : Mem...

1. Activate by the **SETUP** menu or long press on **Mem** :
2. Select and modify the parameters :
 - **Files** : list of the stored files, by date and time
 - **Nb rec.** : number of recordings → max. 10,000 or 30,000 cts depending on the model.
 - **Freq.** : recording frequency in h, min, s, ms



Activate / deactivate the **MEM** auto-recording mode by a short press : max. 10 or 30 sequences, depending on the model.

A long press on **Mem...** opens the record consultation menu : File → **F1** :

1. Display or open the list by **F1**.
2. Select a file with the keys ↓
3. Validate it to display by the **F1** key, then **Open**.
4. **Erase** a sequence or **Erase all** memory sequences.

Incrementing the number of steps since startup sequence.

