

MTX 3294 - AUTO

Digital Graphical color **AUTOMOTIVE** Multimeter

User's setup procedure **AUTOMOTIVE**

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

AUTOMOTIV SETUP SPECIFICATIONS

1. Voltage measurement : VDC, VAC+DC

V input COM input

Activate **V**. Then press F1/F2/F3/F4 to select the coupling **DC** or **AC+DC** (default). Direct measurement with Trend.



Graphical mode (default), but select :

- **MEAS** for another display
- **MEAS+** for secondary measurements
- **MATH** (typical function $Ax + B$) for integrating a sensor ratio
- **SURV** to monitor MIN/MAX/AVG (time-stamped)

2. Record a parameter

Graphical display of **MEM** VAC+DC :

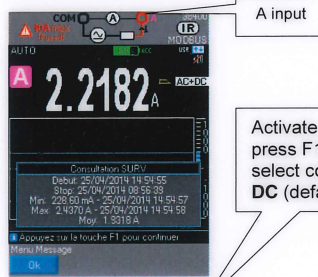


Cursor Zoom Trace



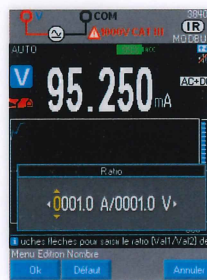
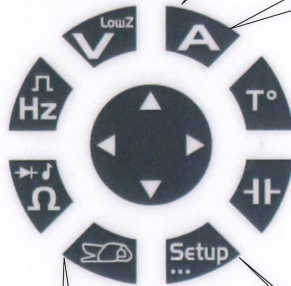
Press **MEM** to record or stop memory sequences (10 maxi and 30 000 measurements). Setup **AUTO**, frequency 30s in A and clamp (default), but modification is possible. A long press on **MEM** opens the record consultation menu.

3. Current direct measurement



A input

Activate **A** then press F1/F2/F3 select coupling **DC** (default).



4. Current measurement by E6N clamp

1. Connect the E6N clamp between **V** and **COM**.
2. Activate clamp function (ratio E6N default) and select ratio.
3. Using the **thumbwheel**, display on the multimeter a value as close as possible to 0.
4. DC Coupling (default) and select the **function switch** (located on the handle) to the clamp 1mV/A or 10mV/A. Select the same ratio on the multimeter with F1 or F2 in **AUTOMOTIV SETUP**.

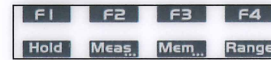


5. Current measurement by the blade-type fuse adapter (Conrad n° 122231)

1. Connect the adapter between **COM** and **A**.
 2. Insert the probe instead of a flat fuse into the vehicle (max. 20 A).
 3. Direct current reading:
 - **A** unit (default)
 - direct reading **DC** coupling
- Pay attention to the polarity of the current in the fuse.

Secondary functions available by **MEAS**:

- **GRAPH** : graphical display trend
- **SURV** : monitoring (MIN/MAX/AVG) + h
- **MATH** : $Ax + B$ sensor ratio integration
- **MEAS+** : secondary measurements



Select **MEAS**, then **MEAS+** to access secondary measurements. Select **MATH** or **SURV** to access timestamped MIN/MAX/AVG.

Activate / not activate the selected mode by pressing **MEAS** key F1/F2/F3/F4.

SETUP menu

This **SETUP** menu sets the parameters by main adjustments and 2 levels: **AUTOMOTIV SETUP**.

a) 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

b) Measurement configuration

- **Measurement** : on/off, impedance, filter, reference, Dbm and W
- **Clamp** : V or A measurement, ratio, unit
- **Math** : measurement, A and B coef., unit

c) Configuration and MTX identification

- **Memory** : files, number of recordings, frequency
- **Config** : factory setup, **AUTOMOTIV** or **USER**
- **About** : model, serial number, software version