

WinTest2 : User Guide

Software Release 3.9

WinTest2 manages the serial communication for the following instruments

- MP10
- MP2000A
- MP2E
- MP6A
- TA5F
- DMM
- MP2000
- MP2C

It allows to create and archive test graphs, to export data to Microsoft Excel and to manage basics serial commands to the instrument connected.

The screenshot displays the WinTest2 software interface, version V3.9. The window is divided into several sections:

- Serial Communication:** Includes dropdown menus for Instrument (MP2C), Baud rate (9600), and COM (8). It also has input fields for First and Last instrument Identity n° (both set to 01) and a logo for AEP.
- TA5F Calibration:** Features input fields for Full Scale (200000) and Sensibility (2000), each with a Send button. It also includes a Decimal Point Position section with buttons 0-5 and a New Address field (00) with a Send button.
- Save on File:** Contains a File name input field, an Updating rate dropdown (50 ms), and a Time duration dropdown (1min). It has Start and Stop radio buttons.
- Remote commands:** Shows Interrogazioni: 0 and Risposte: 0. A large display shows the value +23.345. It includes Zero and Peak On/Off buttons, a Command input field with a Send button, and an Answer to Last Command field.
- Resolution and Digital Filter:** Resolution buttons are 1, 2, 5, 10, 20, 100. Digital Filter buttons are FD 0 through FD 8.
- Report Folder:** Set to C:\WB98_NET\TDemo2\Dati with a Browse button.
- Language and Function Buttons:** Includes flags for UK, Italy, and Germany, along with Help, Load curve, Save Graph, and Exit buttons.
- Graph Settings:** ORX (0), FSX (110000), AutoRange (checked), ORY (-100), and FSY (20000).
- Export and Print:** Buttons for Export In Excel as xls file, Export In Excel as csv file, and Print Graph.
- Grafico:** A graph showing a signal over time. The y-axis is labeled (div) and ranges from -100 to 80000. The x-axis is labeled Tempo (s) and ranges from 0 to 80. The graph shows a step-like signal that rises from approximately 15000 to 55000 within the first 10 seconds and then remains constant.

- In the Serial Communication window select :
 - o **Instrument** : Select the connected instrument
 - o **Baud rate** : Select the baud rate at which the instrument is transmitting
 - o **COM** : Select the serial communication port to which the instrument is connected

- The **Remote Commands** Window displays the data received from the instrument and allow to perform some operations on the instrument through direct serial control buttons (keys: Zero, Peak, resolution, etc.).
 - In the Window **Save On File** you can select some parameters to run, store, create the graph of a test:
 - **Updating** (Manual or time from 50ms ÷ 1min): This is the time interval between two or more data storage. If you select Manual the operator can decide the time to store a point by pressing the button **Save Point**
 - **Time Duration** (1min ÷ 24h): defines the duration of the test. It is not active when Manual Updating is selected
 - **File Name** : where to save received data. If the file name box is empty the data will not be saved to file but you can also see anyway the graph
- The **Start button** starts the recording and the **Stop button** stops the recording.

The files are saved in the folder "Data" placed inside the installation folder.

The records consist of three fields : sequential number, data received by the instrument, time.

The graphics window allows the setting of the parameters of real-time graphic. The X-axis is the time while the Y axis is the output of the instrument

- **XOR**: defines the starting point of the X axis
- **FSX**: defines the full scale of the axis X. FSX should be greater than ORX
- **ORY**: defines the starting point of the axis Y. This can also be a negative number
- **FSY**: defines the full scale of the axis Y. Can also be a negative number. Obviously the only condition is that $FSY > ORY$

If you set the selection **Autorange** the chart will auto size during the test by comparing the actual values as specified. During the test parameters ORX, ORY, FSX, FSY are allowed to select portions of the graph of interest.

Graphs saved can be re-analyzed by using the "Load Curve" button. More than a chart can be selected to make comparisons between different tests. Curves are displayed with different colors.

The scale will automatically adapt to the maximum values recorded in the tests if the active function **Autorange**.

It is always active the zoom function. To activate, simply click on the chart with the left mouse button and define the portion of the chart concerned.

To return to the initial condition is sufficient to confirm the value in one of the 4 parameters ORX, ORY, FSX, FSY.

The image of the graph can be saved as .Bmp file through the **Save Graph** key, or printed directly via the **Print Graph** button.

It is also possible to perform an export of data collected in a Microsoft Excel file with the button **Export to Excel**. This feature is only available when Microsoft Excel is installed on your computer.

The buttons with the flags (Italian and English) choose the language.

TA5F Calibration

TA5F is an instrument without a Display Panel or a operator panel.

It is possible to set the **Decimal Point** position, the **Sensibility** and the **Full Scale** values by using some dedicated serial commands in the dedicated window.

Pay attention that the **Full Scale** value is an integer value between 50 and 200000 while the **Sensitivity** valid range is between 1000 e 3000 (1mV÷3mV)
The **Decimal point** position can be set by dedicated buttons.