



Ortelli
Technologies

MVS2proDENSITY

Resolve your density measurement with performance

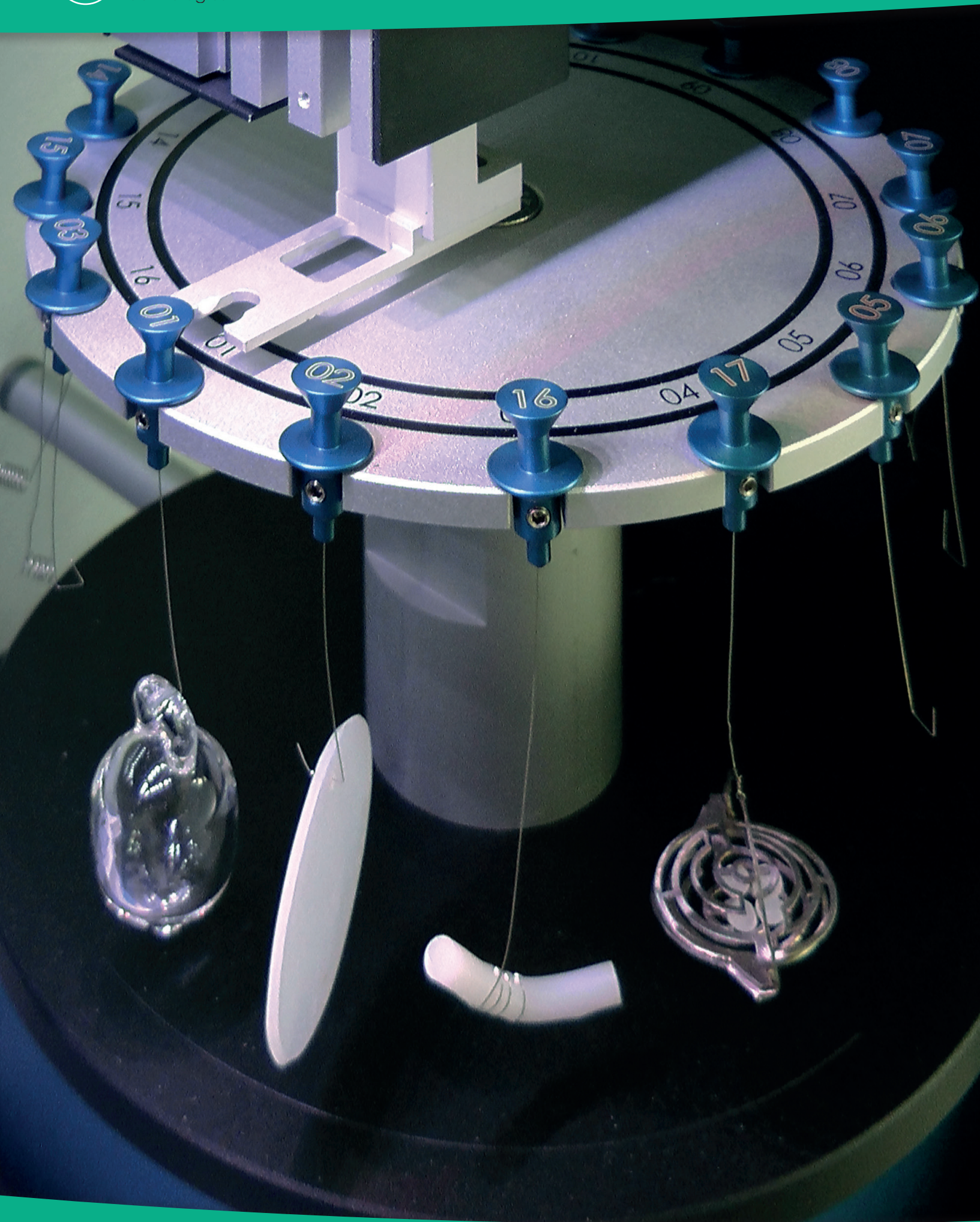


**The Automatic Determination
of the Volumic Mass**
RELIABLE, REPRODUCIBLE, OBJECTIVE, CERTIFIABLE



ISO 9001
BUREAU VERITAS
Certification







Data Sheet

MVS2pro is a robotized system for the determination of the Density or the Standard Absolute Volumic Mass (MVS) of polymers by the principle of the Hydrostatic Push opportunely corrected in order to obtain the result expressed in the MV (S) unit.

MVS2pro determines the Volumic Mass in a completely automated cycle that replaces the old system used for this measure (Gradient Columns), that was characterized by typical human errors and slowness in measurement.

MVS2pro System is perfectly integrated in the quality Standard Process ISO9001.

It's already supported by all the control procedures for the carried out measures using five different kinds of Standard:

- 1 certified Density Standard
- 1 certified Mass Standard
- 1 certified Volume Standard
- 1 polymer standard
- 1 standard Temperature (certificated thermometer)

All integrated in a statistical plan of controls to check the validity of the analytical determinations of the samples.

MVS2pro has an Autosampler with a maximum of 16 samples and/or Standard of density, mass or volume.

The system makes the measure of a sample in about than 120 sec.

MVS2pro constantly controls the Temperature to which it comes carried out the measure to have the certainty that will be respected the range of working set in the method.

This **Pt100 probe** can be calibrated using the procedure from the management software with a Corporate primary standard for comparison.

MVS2pro was born for the determination of MVS on **High Density Polyethylene (HDPE)** but it is obviously usable for the same kind of determination with other kind of materials can be **analyzed with the method of the hydrostatic push**. Integral control of the **MVS2pro** system takes place via LAN from a software console, included in the price, that is installed on a PC in the corporate network (or, if necessary, with a direct connection to the PC). The software console allows you to control the system and keeps DB archive of all historical data and all the measurements made to obtain it. It is possible to recalculate archived data with other types of applications like Excel, Access and transfer them directly to LIMS.



Technical Data

- **Model:** MVS2pro
- **Reproducibility:** < 0.01%
- **Range of Temperature:** from 10°C to 50°C (usually 23°C)
- **Medium Time of Analysis:** 120 s/sample
- **Sample dimensions:** diam. approx 4 cm
- **Autosampler:** 16
- **The System MVS2pro is compliant to the ISO1183-1, ISO2781, ASTM D792 and ISO 293 for sample preparation.**



Accessories (required)

Support samples series hook and helicoid form



Set of 20 hook shaped support samples.

The kit is composed in this way: 16 hook/helicoid form, 2 helicoid/hook form and 2 basket supports.



[Watch the Video!](#)

Basket Support samples



The kit is composed in this way: 16 basket supports, 2 helicoid supports, 2 hook supports. In the perforated basket support you can include some polyethylene spheres or other material like fragments of glass or precious stones (diamonds). These kits can be combined in various ways accordingly to your needs.



[Watch the Video!](#)

Mettler Analytical Balance



Analytical Electronic Balance with underplane support weight to position the support sample in the measurement area of the **MVS2pro**. The balance suggested is 5 decimal places in grams like: MS, XSR, XPR series ($d= 0,01$ mg). The Balance is directly controlled by **MVS2pro** via USB.

Glass Cover Wind Protection Assy



Device perfectly compatible with the **MVS2pro** system allows to protect the balance from interference for example air displacements inside the laboratory, allowing a better stabilization of the balance.

Thermostatic Bath



System of thermostatisation for the beker (beker thermostatable). It allows the maintenance of the liquid measurement at the temperature described in the method. The system has a suction pump to recirculate the thermostated liquid in an external circuit and it is directly controlled by **MVS2pro** via USB.

Certified Density Standard



Certified Density Standard in Glass.

Certified Mass Standard



Certified mass for the adjustment of the analytical balance with external weight to maximize the accuracy of the system.

PC with keyboard mouse and monitor



OS: WINDOWS10
with pre-installed
MVS2pro Density
Manager Software

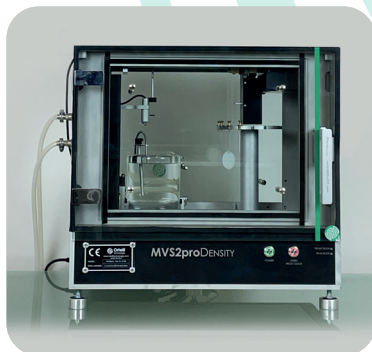
MVS2pro Density Series



Productivity

CONFIGURATION

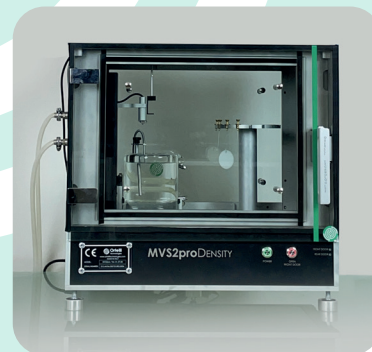
- Transporter
- Autosampler 16 positions
- Lift
- Automatic sequence management



Plus

CONFIGURATION

- Transporter
- Lift
- Single sample automatic management



Essential

CONFIGURATION

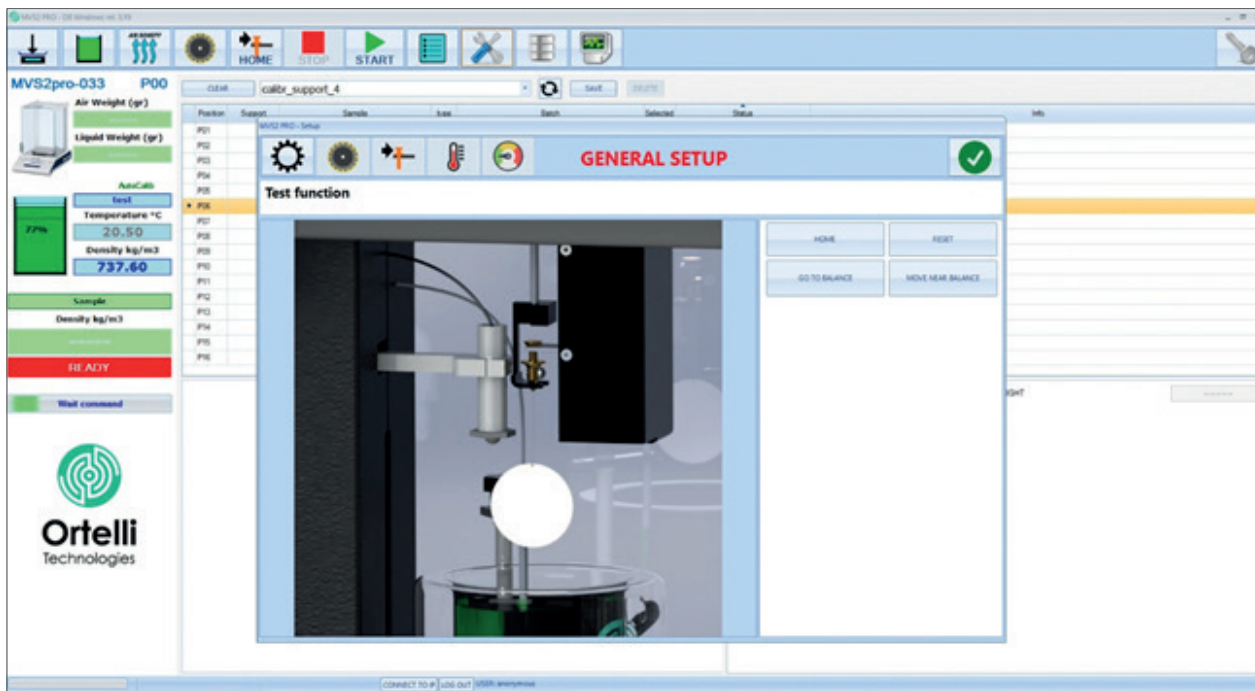
- Lift
- Single sample manual management

MVS2pro Density System vs the oldest column gradient method

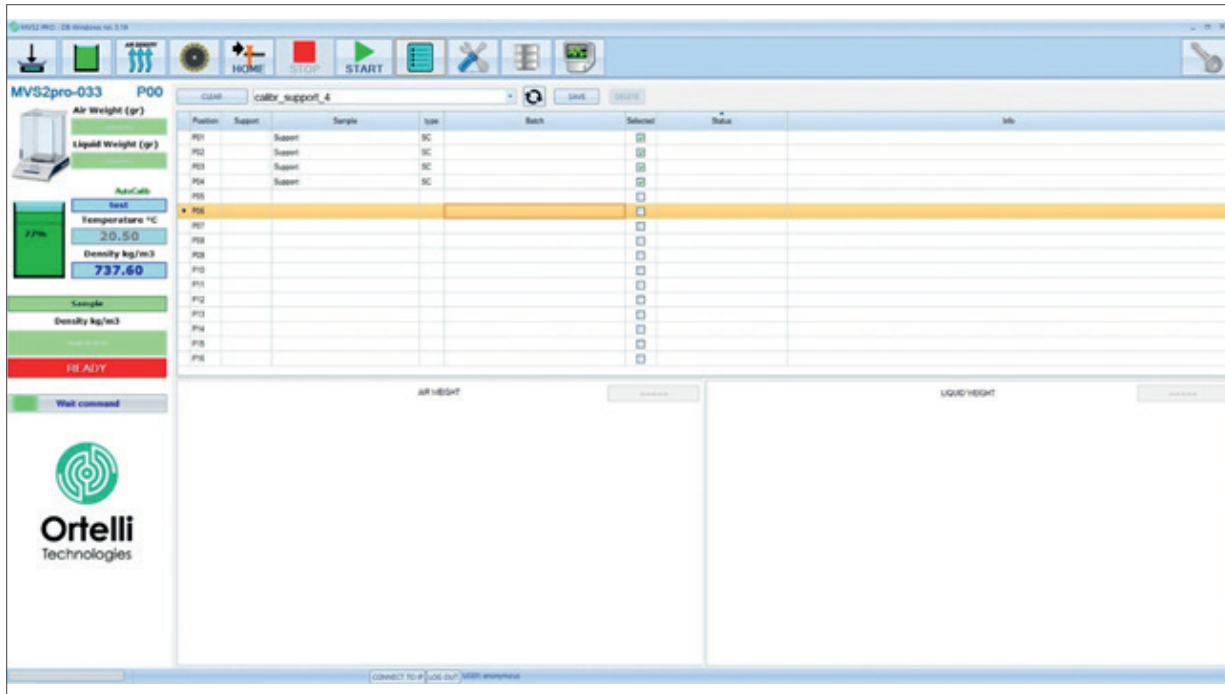


MVS pro system	Gradient column system
Direct measure	Indirect measure of the sample
Easiest certificability of the system	Difficult certificability of the procedure
Integrated Statistical Quality Control Plan	External difficult qualification of the measure
Remote Check and Support of Diagnosis	Not available
Very Fast measure(s)	Very Slow measure(h)
Accuracy, reproducibility and reliability of the measurement	Not available
Result not influenced by the technical skills of the operator	Result dependent on the technical skills of the operator
Managed Data compliant with the Transitional Plan 4.0	Not compliant

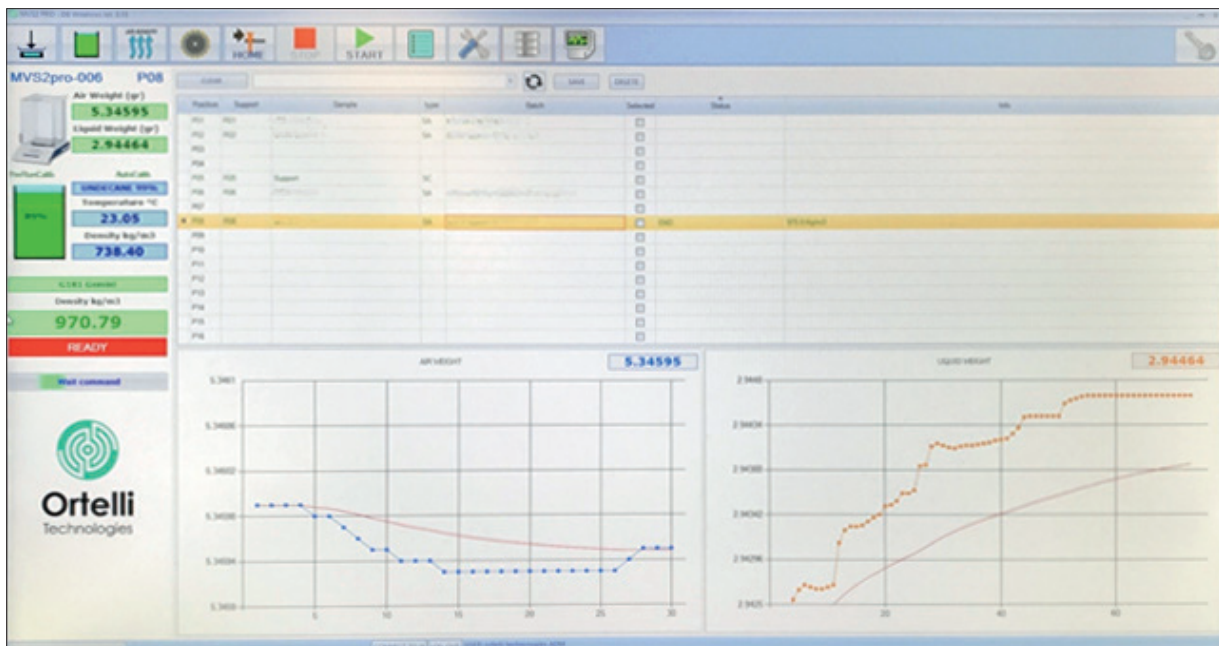
Our Density Management Software



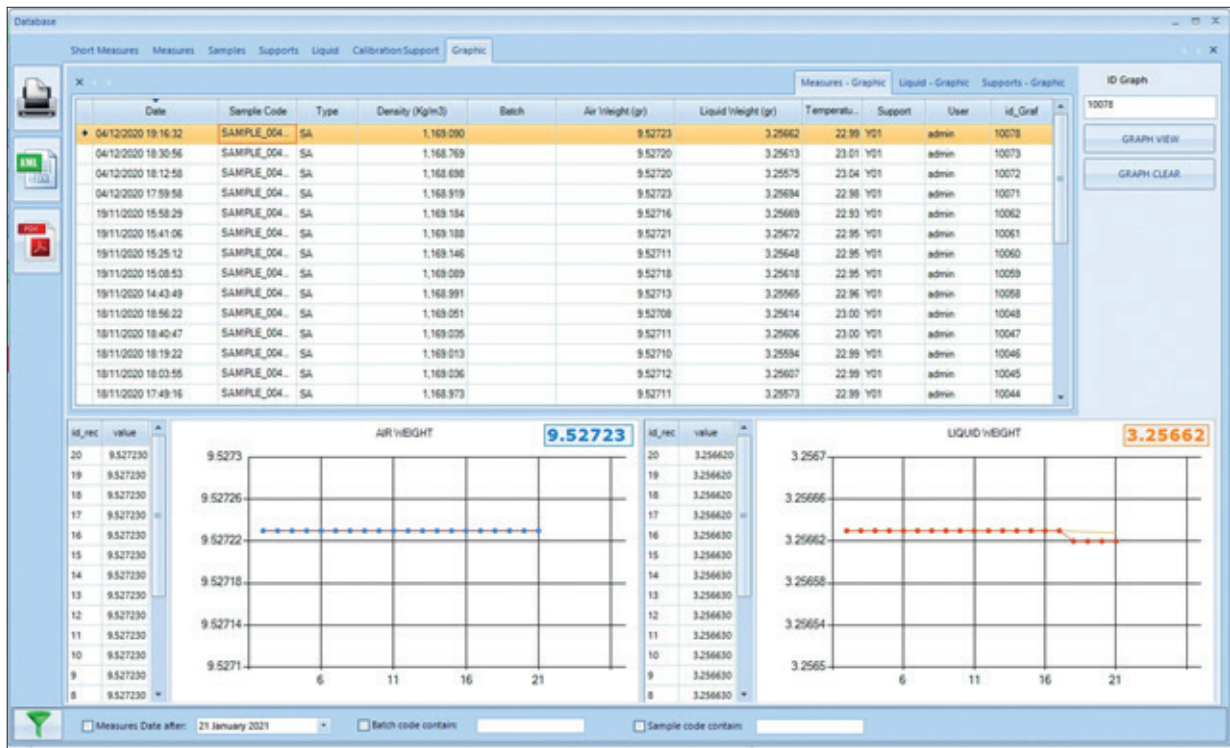
Complete setting and calibration of the instrument from the Windows application



Easy and immediate method setting up to 16 samples (including the use of templates predefined by the manager).



Fully automated sequence reading, including control tests and correct detection of measured parameters.



Control of all the set up and all the data analysis phases stored in the software database, including the graphs of the data taking in air and liquid.

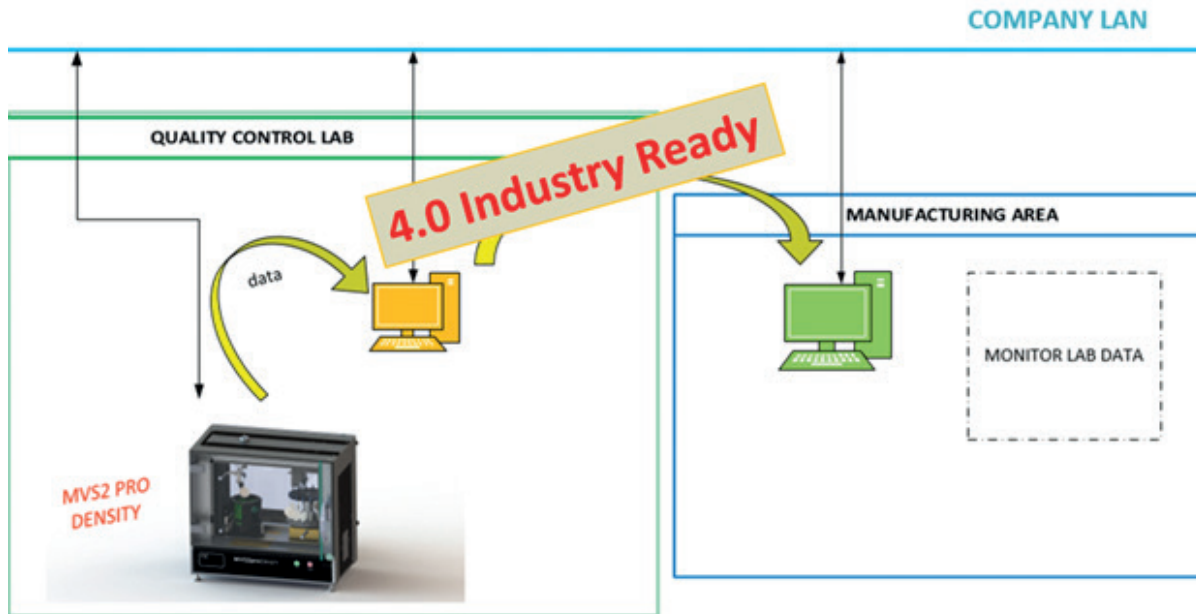
Tax Breaks



The technical characteristics of the system make it purchasable through existing tax breaks, provided by the new 4.0 Transitional Plan.

Rental options are also available for the purchase of this equipment.

4.0 Transitional Plan



The system can be fully integrated within the company LAN with the ability to transfer analytical data to the areas of competence identified automatically.

On demand services



- Demo in Live Webinar
- In Live measurement of customer's samples

Our Partners representative around the World



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