

# Functional design

## Temperature compensation

In order to perform accurate density measurements, the result must be corrected for sample temperature. Densito not only measures the sample temperature very accurately, it also lets you choose a temperature correction coefficient before each measurement. This makes it easy to quickly measure many different types of samples.

## Plain language display

The backlit dot matrix display shows the results in large digits and offers a plain language and easy-to-navigate user interface.

## User guidance

Thanks to the pictogram-labeled keys, Densito is easy to learn and use.

## Controlled sampling

With Densito, the sampling speed can be adjusted to the task at hand: Slow for viscous samples to avoid the formation of air bubbles or very fast for efficient rinsing of the cell. Ergonomic sampling for left-handed and right-handed users.

## Clearly visible measurement cell

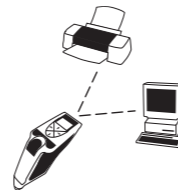
The most common reasons for bad results are air bubbles or impurities in the measurement cell. Densito's cell is clearly visible at all times. Potential problems are apparent at once.

## External sampling

Sampling can be difficult with samples of very high viscosity or samples that degas easily. In cases like this, Densito lets you connect an external syringe.

## Save and transfer your data whenever you want

Densito saves up to 1100 results including sample identification, measurement unit, temperature correction coefficient, instrument identification, date and time. You can transfer the data to a PC and printer any time using the infrared interface. The PC software to do this comes with the instrument.



## PortableLab™

### Specifications Densito 30PX

**Measurement principle:** Density measurement using the oscillating tube method • **Measurement range:** 0 to 2 g/cm<sup>3</sup>, Resolution: 0.0001 g/cm<sup>3</sup> • **Accuracy:** ± 0.001 g/cm<sup>3</sup> • **Measurement units:** Density, specific gravity, temperature compensated density, temperature compensated specific gravity, Brix%, alcohol (w/w%, v/v%, US proof and UK proof), °Baumé, °Plato, API (tables A, B and D), % sulphuric acid (w/w%), user defined units • **Temperature:** measurement range: 0 – 40 °C, resolution 0.1 °C, display: °C or °F • **Ambient temperature range:** 5 °C – 35 °C • **Temperature compensation:** Automatic (Brix%, alcohol, °Plato, API, % sulphuric acid) or by using a user-defined temperature correction coefficient. Up to 10 temperature compensation coefficients can be stored in the instrument. • **Calibration:** With dry air or pure water (supplied) or other density standards • **Data memory:** Capacity for up to 1100 results (measured value, sample identification, temperature compensation coefficient, date and time) • **Display:** Backlit LCD matrix • **Interface:** Infrared Interface for data transfer to printer and PC, IrDA or RS232C protocol • **Weight:** approx. 360 g • **Batteries:** 2 x LR3 1.5 V batteries. Type AAA, approx. 90 hours battery life • **Materials:** Measurement cell: Borosilicate glass. Housing: PBT and PET; Sampling pump: PP and PTFE; Materials with sample contact: PTFE, PPS, borosilicate glass and PP.

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**Refracto 30GS**  
portable high-end refractometer

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**Refracto 30PX**  
portable refractometer

[www.mt.com/refracto](http://www.mt.com/refracto)



**Densito 30PX**  
portable density meter

[www.mt.com/densito](http://www.mt.com/densito)



**SevenGo Pro**  
Portable instruments for pH, Ion, Cond, and DO measurements

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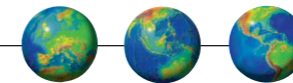


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# Densito 30PX

## Density meter



METTLER TOLEDO

PortableLab™

# Densito – the hand-held density pro

Whether you check the purity of water or the quality of salad oil: Densito always shows the result within seconds – directly in the measurement units you want to use. Using the oscillating tube method combined with precise temperature measurement and an elegant user interface, Densito gives you reliable measurement results, easily – just immerse the sampling tube, pull the trigger and read the final result!



**Density:**  
Absolute and relative

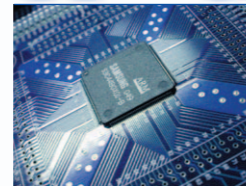
The density of the sample can be displayed in g/cm<sup>3</sup>, lb/gal (US) and lb/gal (IP). The specific gravity is calculated using the density of water at the measurement temperature or at any other temperature (e.g. 20 °C or 4 °C).



PortableLab™ – Lab power in your hands! Densito is delivered in a special case that contains everything you need for successful measurements: Pipettes for sample handling, cleaning towels, density standards, flasks for samples and cleaning solutions, operating instructions and a CD-ROM with data transmission software, a tutorial to get started and more.



PortableLab™



**Electroplating and photo:**  
Automatic temperature compensation

Temperature compensation is the key to fast and reliable control of electroplating or photographic solutions. With Densito, the procedure is very simple – just choose the sample type and perform the measurement. It is an easy matter to check different solutions one after another, quickly.



**Alcohol:**  
Replaces 4 sets of hydrometers

Densito replaces 4 complete sets of hydrometers (w/w%, v/v%, US proof, UK proof) and gives you accurate results in record time!

**Batteries:**  
Effortless acid test



Densito performs battery acid tests without need of a calculator or lookup table. It displays the sulphuric acid concentration directly in weight%.

**Food:**  
The sugar expert



Brix%, °Baumé or °Plato: Densito determines whichever you want.

**Petroleum products:**  
API compliant measurements



The built-in API tables (product groups A, B and D) make Densito the ideal choice for quality control of crude oil, gasoline, petroleum products and lubricants.

**Custom applications:**  
Define your own calculations

If you need concentration determinations such as heavy Baumé grades, light Baumé grades, Twadell grades or milk grades, you can teach Densito the necessary calculation formula.

