

Automated Density Measurements for Accurate Results

COLUMBUS, Ohio (January 28, 2009) – METTLER TOLEDO is pleased to introduce the PSU-DE Density Meter Sampling Unit. This compact automation unit allows the measuring cell to be thoroughly cleaned and dried, and ensures that possible measurement errors are automatically detected.

Reliable Error Detection

Most digital density meters only give accurate measuring results if the measuring cell is free of air bubbles, contamination or residual cleaning liquids. Often, the accuracy of measurements depends on the skill and care of the user. Potential sources of error are not always obvious, even for experienced users. The PSU-DE helps to overcome such problems: METTLER TOLEDO DE density meters equipped with this automation unit can automatically detect measurement errors caused by the above factors and warn the operator accordingly.



Compact Automation Solution

The PSU-DE Sampling Unit can be installed in all METTLER TOLEDO DE series density meters. The key advantage of the PSU-DE is its separate pumping system: a peristaltic pump is dedicated to sampling and cleaning, and a diaphragm pump is used for drying. Samples for measurement can be taken directly from different types of containers such as beakers, sampling bottles or vials. "The new PSU-DE autosampling unit enhances the METTLER TOLEDO density line even further," states Market Manager, Wallace Harvey. "The separate sampling and drying pumps make the PSU-DE an extremely robust unit and the measurements extremely reliable."

Special Applications

The METTLER TOLEDO PSU-DE is suitable for the measurement of low-viscosity to medium-viscosity samples (viscosity < 3000 mPa.S) that do not tend to degas. For highly viscous, sticky or volatile samples, the use of the SC1 or SC30 automation unit is recommended. An optional heating device is available for the measurement of samples that are solid at room temperature.

METTLER TOLEDO is a leading global manufacturer of precision instruments. The Company is the world's largest manufacturer and marketer of weighing instruments for use in laboratory, industrial and food retailing applications. The Company also holds top-three market positions in several related analytical instruments markets and is a leading provider of automated chemistry systems used in drug and chemical compound discovery and development. Additional information about METTLER TOLEDO can be found at www.mt.com.

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