

Calibration Made Easy

**Sartorius LMA500: Fast, reliable and non-destructive moisture analysis with an optical analyzer**

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Goettingen, June 17, 2008 – Recently, optical methods for moisture analysis have been gaining in importance. And no wonder: they offer the advantage of fast, reliable and, most importantly, non-destructive analysis. In the past, calibration of such complex analyzers was left to the experts. But now, with the new LMA500 from Sartorius, there is an optical moisture analyzer on the market whose appeal lies not only in speed and accuracy but also in its user-friendly calibration functions. Any lab technician can perform base calibrations as well as expansive recalibrations and batch adjustments, thus making it possible to react to changes in sample characteristics with speed and precision. The main areas of use for the new moisture analyzer model are in at-line process control and in the laboratory. Thanks to near-infrared (NIR) technology, the equipment operator knows the moisture content of a sample within seconds and can adapt the production process right away, directly beside the production line, in accordance with the results of measurement. This not only boosts process reliability and efficiency, it also saves valuable time. The LMA500 is ideal for all analysis procedures on coarse and fine pourable products, and can analyze samples with a moisture content from 0.1%.

**Clever calibration**

Using known datasets and the corresponding moisture content values, the LMA500 reliably calculates the calibration data for the desired substance class.

A variety of statistical methods enables the analyzer to set up calibrations with virtually no input – and without requiring expert knowledge – on the part of the user. Anyone in the lab can quickly and easily create separate basic calibration datasets for each new product in a company's portfolio.

The operator can expand these calibrations in just a few steps by simply adding samples. Furthermore, calibrations can be adapted to individual samples to account for matrix characteristics such as color or surface properties. An optional MA35 infrared moisture analyzer from Sartorius can be connected directly to the LMA500 and used as a reference instrument to determine the required data in fully automatic mode and transfer it to the LMA500. This makes it easy for the operator to adjust the moisture analyzer promptly and flexibly to new batches. Sartorius offers a number of basic calibration datasets for substances in a broad range of classes.

### **Easy testing**

As an added feature, the analysis process automatically compares measurements to the calibration data. This allows the LMA500 to detect outliers and incorrectly categorized samples even before the end of analysis, so the operator can react immediately.

### **Rugged and durable**

The measurement, display and evaluation unit of the LMA500 is built into a dust-proof and splash-proof IP54 housing. A fiber optic cable connects the probe so that measurements can be taken not only in the integrated analysis chamber but also in other analysis chambers, in the MA35 or directly in the production process. Thanks to the analyzer's compact design, it can be transported to other testing locations quickly and easily. The new LMA500 Series is rounded out by its

straightforward and intuitive user interface. This gives the operators a measuring instrument for easy and uncomplicated moisture analysis – even on new products for which the basic calibration has yet to be carried out.

### A profile of Sartorius

The Sartorius Group is an internationally leading laboratory and process technology provider covering the segments of biotechnology and mechatronics. In 2007, the technology group earned sales revenue of 622.7 million euros. Founded in 1870, the Goettingen-based company currently employs approximately 4,500 persons. The major areas of activity in its biotechnology segment focus on fermentation, filtration, purification, fluid management and laboratory applications. In the mechatronics segment, the company primarily manufactures equipment and systems featuring weighing, measurement and automation technology for laboratory and industrial applications. Key Sartorius customers are in the pharmaceutical, chemical and food and beverage industries as well as in numerous research and educational institutes in the public sector. Sartorius has its own production facilities in Europe, Asia and America as well as sales subsidiaries and local commercial agencies in more than 110 countries.

### Image File/Photo for Press Release:



**Illustration:** The new LMA500 moisture analyzer from Sartorius, shown here with the MA35.

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