

Measuring Solutions



Manometric precision

- *Reliable and repeatable results deep into the PPM range*
- *Fully automated measuring cycle*
- *Fully compliant with ISO 15512*
- *Employable both in production environment and laboratory*

• *Designed as a reliable alternative for Karl Fischer titration:*

- *No chemicals required*
- *Does not require highly qualified operators*
- *Extremely low on maintenance*
- *Does not use any consumables*
- *Cuts analysis costs considerably*

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- *Optional external printer*
 - *Optional pc application for instrument control and data acquisition*
 - *Very easy to use through touch panel*

Moisture analyser for plastics AVM-3000

Omnitek
measuring solutions

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Product
info

COMPANY BACKGROUND

When we started out more than 20 years ago our focus was entirely on manufacturing highly specialized scientific glassware for laboratories and research departments in the petrochemical industry. Since then, many things have changed. Our ever increasing expertise in the field of analysis techniques, material testing and automation has led to a gradual shift toward the development and production of highly advanced and fully automated measuring equipment for mineral oils and plastics. What has remained constant throughout the years however, is our constant strive for innovation, quality and customer satisfaction.

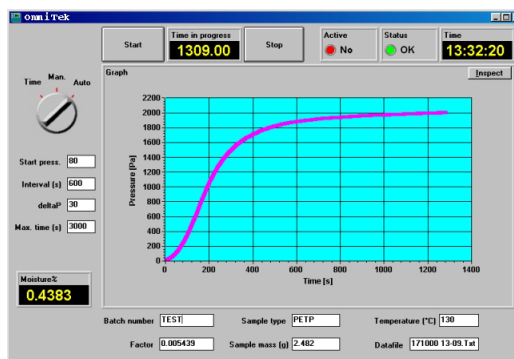
PRODUCT ORIGINS

Our moisture analysers were developed through close cooperation with some of the leading manufacturers in the fiber plastics industry. It was the direct result of our mutual desire to perform accurate and repeatable moisture determinations without having to deal with the negative aspects of the widely used Karl Fischer titration method. This method involves the use of chemicals and needs to be operated by trained laboratory staff. Additionally, the method is sensitive to result variations caused by different operator techniques and needs to be observed with care because of the fragile nature of various components.

These aspects make it unsuitable for use in a production environment, while there is an increasing tendency within the industry to measure as close to the production line as possible, to track moisture related problems as soon as they occur.

Our goal therefore was to devise a measuring instrument that solved all these issues, without sacrificing accuracy and repeatability. The first result was a very robust moisture analyser that quickly found its way into numerous QC labs and production facilities.

Based upon the manometric method defined in the well tested International Standard ISO-15512, which allows very reliable and repeatable results deep into the PPM range, a whole range of moisture analysers has since seen the light of day.



Now, the AVM-3000, as the latest addition, brings our moisture analysers entirely up to modern-day standards. Controlled by a powerful microprocessor and operated through a very intuitive touch panel display, this is our most capable and user friendly instrument to date.

MEASURING TECHNIQUE

The entire measuring procedure consists of weighing a sample, attaching it to the instrument and starting the measurement with a single press on the touch screen. The instrument takes care of the entire measurement and reports the outcome afterward. The result can be printed out to an optional external printer or can be saved to hard disk or network drive through the use of an optional, dedicated pc application (see figure).

The instrument uses no consumables whatsoever. Sample tubes are reusable and will last for many years. Apart from the occasional replacement of O-rings, the system is completely maintenance free and will save considerably on the total cost per analysis.

Our systems are sold worldwide through a dedicated and highly specialized distributor network. Please contact us for a distributor in your country.

SPECIFICATIONS

Measuring range:	30 ppm – approx. 5 %
Measuring time :	15 - 40 min.
Communication:	RS-232c
Dimensions:	300 x 460 x 760 mm.
Weight:	27 kg.

Requirements

Compressed air :	5-6 Bar
Vacuum line:	< 100 Pa

Complies with ISO-15512
CE compliant