



**Fast and accurate measurements guarantee
Quick analysis of dry mass and moisture content
Automatically opened drying chamber**



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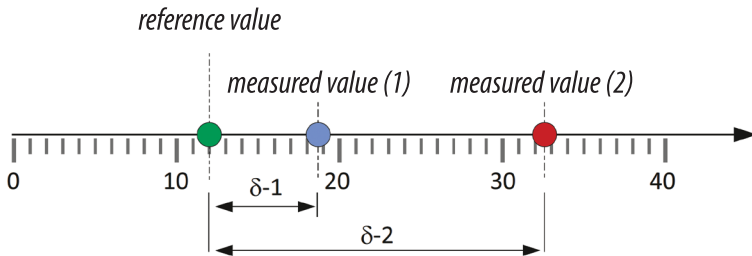
MA X2.A Moisture Analyzers

ADVANCED MOISTURE CONTENT ANALYSIS

Accuracy Measurements

Defintion

The accuracy of the measurement is the convergence between the measured quantity value and the true quantity value. It can be said that the measurement is accurate when the difference between the measured value and the true value (ref. value) is very small.



Switch on the moisture analyzer to the mains at least 1 hour before starting the test.

Equipment

Glass fiber filters, pipette, NaCl standard.

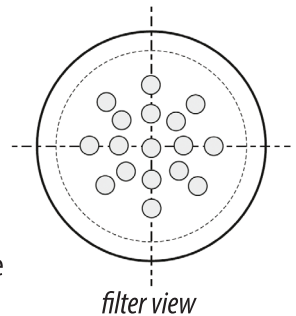
Set the drying parameters

drying profile	temperature	power*	auto switch off	result
standard	105°C	100%	auto 2	dry mass

*only for PMV 50 PLUS

Procedure

- put the filter on the moisture analyzer's pan
- start drying after adding approx. 1 g of NaCl on the pan
- note: sodium chloride should be doses onto the filter in drops
- take 6 measurements and recrods the results
- calculate the mean value of the series of measurements
- compare the mean value with the value given in the EAN code



EAN code structure

04	week of the year
25	number of the day
1022	dry mass content without a zero and decimal point (rec. format 15 = 0.15)
08	two digits as pattern number in the format 01, 02... 99
2	check digit



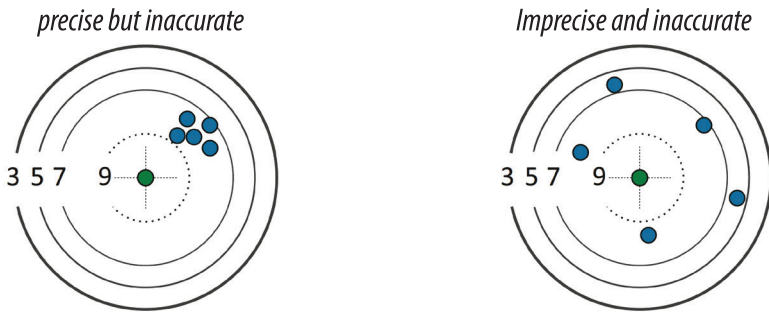
Sample calculation

reference value = 10.22%
 measured value as mean value = 10.15%
 accuracy of measurement A = 10.15% – 10.22% = 0.07%

Measurements Precision

Defintion

The precision of measurements is the convergence of results in a series of measurements performed under the same conditions by the same operator. Precision of measurement is usually expressed in terms of standard deviation.



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Equipment

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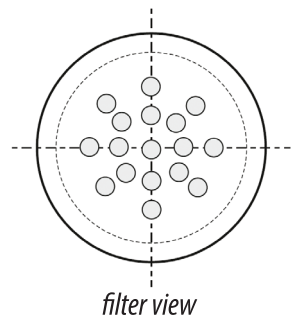
Set the drying parameters

drying profile	temperature	power*	auto switch off	result
standard	105°C	100%	auto 2	dry mass

*only for PMV 50 PLUS

Procedure

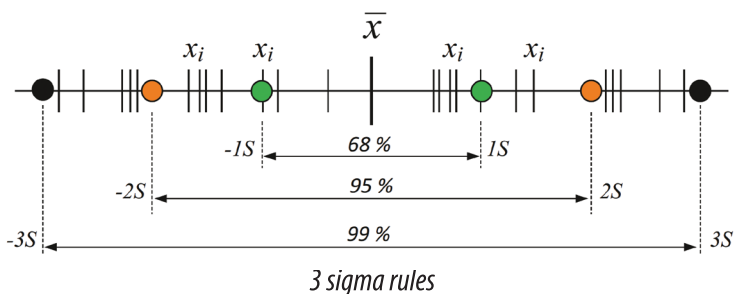
- put the filter on the moisture analyzer's pan
- start drying after adding approx. 1 g of NaCl on the pan
- note: sodium chloride should be doses onto the filter in drops
- take 6 measurements and recrods the results
- calculate the standard deviation of the measurements



Exemplary results

10.1232%	10.1502%	10.1316%	10.1653%	10.1267%	10.1942%	S=0.03%
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Using the 3 sigmas rule it is possible to determine with some probability where the result of the waster content is.





Ultra-short drying time
Uniform heating of the sample
Complex database of drying programs



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PMV 50.5Y Microwave Moisture Analyzer

HIGHLY PRECISE ANALYSE AND FAST DRYING PROCESS