

## About MW 4300/MW 4310

The laboratory testers MW 4300 and MW 4310 stand for the high quality laboratory measurement of moisture and bulk density.

These robust and functional systems are extremely easy to operate. Product samples can be measured without any preparation. No grinding, weighing before and after the test, or use of chemical reagents. The sample under analysis is neither modified nor heated and can usually be returned to ongoing use.

Measurement results are obtained within seconds. As soon as the sample is filled into the sensor, the result will be displayed. Results are stored in the instrument together with the date, time and other operational details. The measurement system or an external PC, can be used to prepare a statistical analysis of results or display a time vs. value chart of sensor readings.

Laboratory tester MW 4300 features a 10.4"(26,4 cm) LED color touchscreen monitor for displaying sensor values and for the configuration parameter setup. For display and configuration, MW 4310 requires an external monitor, a PC-keyboard and mouse. "TEWS Moisture View ©" is installed in both instruments.

## Brief Description

Large high end laboratory instruments, with the choice of a built-in color touch screen for connecting to a PC-monitor, keyboard, and mouse. In both circumstances, the "TEWS Moisture View ©" software guarantees the simplest operation and an easily viewed results display.

## Advantages of Microwave



Moisture and density measurement



Measurement of core and surface moisture



Simple and longterm stable calibration



Independent of dust or dirt



Helps to reduce CO<sub>2</sub> footprint



Short ROI



ATEX protection possible



Industry 4.0 ready



Online-Cloud-Based support



Worldwide Service

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**TEWS**  
MEASURABLY BETTER



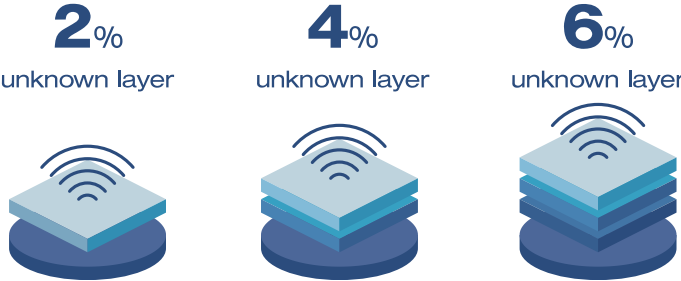
**High-Performing Laboratory  
Measurement Solutions  
4300/MW 4310**

**HIGH PERFORMANCE SOLUTIONS**

Your production process combined with our patented solutions. The result: the most accurate data about the moisture & density of your products.

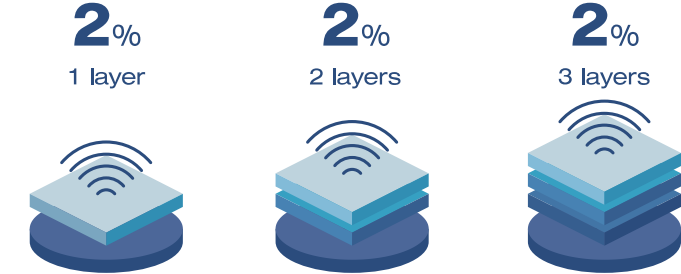
# TEWS Measures Moisture and Density Independently

## Traditional 1 - parameter - measurement



3 different layers of the same material with a typical 1 Parameter Method: Each layer increases the moisture → **misleading results**

## TEWS - 2 - parameter measurement



3 layers of same material show the same moisture, the density is recognized and moisture result compensated → **correct results**

# Technical Data

MW 4300 and MW 4310 introduce you to high-performance moisture and density laboratory measurement.

- Electrical Power Supply: 110 - 230 V AC, 50-60 Hz
- Power Consumption: 60 VA
- Ambient Temperature: 0 - 45 °C
- Data Interfaces: – 2 x RS 232 (COM, service) – 1 x Ethernet – 3 x USB – 1 x analog input (0/4-20 mA) for optional IR sensor (via sensor connection) – 1 x connection for Pt 100 temperature sensor – Connections for mouse and keyboard (PS-2) and VGA screen
- Measurement Time: milliseconds
- Data Memory: 6.000 on device, unlimited on external server
- Display: Mw 4300 – integrated 10.4" (26,4 cm) LCD color touchscreen, MW 4310 – external monitor, PC keyboard and mouse
- Features: Sensor for sample volumes of 1ml to 2000ml available, up to 2 laboratory sensors can be connected and Up to 200 product calibrations can be set up inside

# About TEWS

TEWS was founded in Hamburg, Germany back in 1970. Today, the company is owned and managed by André Tews in the 2nd generation of leadership. As the market leader in high performance moisture and density measurement solutions, TEWS is at the center of today's business for almost 50 years, now.

TEWS helps you streamline your processes, giving you the ability to collect and use data by applying a unique patented microwave technique across your production business.

When you run TEWS high performance solutions, you run measurably better. Let's look at your production structure together. And in a new, agile way we exchange, attach, discuss, omit or add knowledge. From this we develop new opportunities together. Bringing them into life brings your business forward at the same time. We call this Co-Improving.

