

MEET Ltd, 2007

The moisture measurement system for aggregates and cement

WaveTester™ is a complete system for the measurement of the moisture of gravel, sand and cement for the concrete mixture production plants.



Characteristics:

- Measures through the entire material, in depth
- Non-invasive (no abrasion)
- Accurate
- Compatible with existing systems
- Instantaneous measurement
- Automated data logging and reporting
- Safe and easy to use

Thanks to its innovative, non-invasive, and destruction-free measurement method, the WaveTester is able to determine the water content with no contact to the material to be measured. The resulting measurement system is reliable and knows neither wear nor aging due to abrasion.

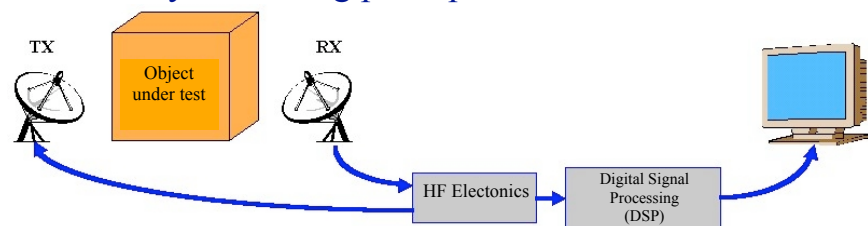
The WaveTester is the ideal measurement instrument for the producers and the consumers of aggregates, because it offers a continuous monitoring of the material quality and guarantees a high performance and time-constant product.

The advanced processing and analysis software eases the monitoring of the material quality/cost ratio.

Thanks to its numerous standard interfaces, the WaveTester can be integrated easily into existing automation systems. Therefore it offers a control of the mixing parameters in real time.

The statistics produced out of the measurements can be imported into the plant data network (LAN).

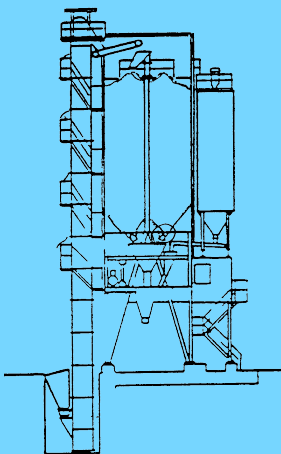
A revolutionary measuring principle



The core of the WaveTester is an innovative microwave measurement principle. Its particularity is the fact that, in contrast to the other existing systems, the entire thickness of the material is analyzed due to a double antenna system.

At the same time, the system offers the advantage to be able to measure without any contact with the material under test.

The microwaves interact more or less with the material, according to the water content. This interaction is recorded by the WaveTester. Thanks to a refined signal modulation procedure and digital processing (DSP) of the measurements, the WaveTester delivers a repeatable and reliable measurement of the moisture.





WaveTester and today's measurement systems

The WaveTester has been developed as an answer to explicit needs of the market: to optimize the concrete mixtures and to minimize the costs generated by excessive water content of the aggregates.

The well-known systems available on the market today fulfill these requirements only partially. The WaveTester is positioned as an alternative to measurement systems based on nuclear probes, contacting microwave sensors, and capacitive/resistive probes, with

the following advantages:

With respect to nuclear probes:

lower costs, no safety concerns, no additional costs for worker's education, maintenance, disposal.

With respect to traditional microwave, capacitive probes, etc.:

better accuracy, longer lifetime, guaranteed measurement through the entire material.

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A look at the costs

The initial costs of a WaveTester system lies between that of a traditional (contacting) microwave probe and that of a nuclear probe.

But already after 12-24 months, the additional costs compared to a traditional probe are amortized: low usage costs (no wear) and high reliability.

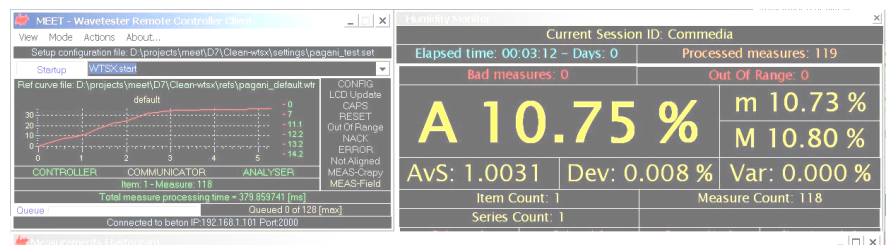
The WaveTester offers the optimization of the concrete quality as well as the reduction of the losses through the purchase of "water at the price of aggregates".

Fields of application

- Measurement on a moving conveyor belt
- Measurement in a silo
- Measurement at the silo's outlet
- Measurement directly in the mixer **NEW!**
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Who is MEET...

Established in 1996, MEET is an independent engineering and development company, active in the area of industrial electronics.

Thanks to a strong background and experience in the field of sensors and industrial control, MEET has been quickly recognized as a reliable and competent partner for the in-sourcing of electronic design projects for Swiss and European companies.

MEET develops and sells different own products in the area of electronic test and measurement, more specifically in microwave based measurement systems for water content and inhomogeneities for different materials (aggregates, ceramics, tobacco, wood, leather, food, etc.)

For the basic research on the operating principles of these complex systems, in which both HF-technology and digital signal processing are involved, MEET relies on the collaboration with the University of Applied Sciences of Southern Switzerland (SUPSI, www.supsi.ch), which is located in the vicinity of Lugano (Switzerland).

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