8-Channel Ultrasonic Measuring System IP-8
Precise Measurement of Setting Processes in Development, Production, Research and teaching

Contemporary Measuring of Setting Processes

**IP-8 System in use**

- High-precision measuring system (resolution 0.05 μs)
- 8 independently controllable channels
- Intuitive software for control and evaluation
- Simple and easy to use in everyday lab work
- Suitable for industrial applications
- Optional PLC control and integration in production lines

**Analysis of Ultrasonic Speed**

Ultrasonic Speed

Temperature

1st Derivative

**8-Channel Ultrasonic Measuring System IP-8**

**Main Features**

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- 8 independently controllable channels
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**Applications**

- All materials with a setting process (e.g. cement, mortar, gypsum, concrete)
- Heat insulation and render systems
- Construction chemicals, additives
- Gypsum products and adhesives
- Refractories, castables
- Food industry
UltraTestLab® - Control and Evaluation Software

- Intuitive operating concept with a clearly arranged user interface
- Measurement duration: 15 minutes - 31 days
- Measurement interval: 10 seconds - 60 minutes
- During measurement simultaneously visible:
  1. Speed in m/s or runtime in μs
  2. Curve derivation (acceleration) and curvature
  3. Temperature inside the sample (-20 ... +125 °C)
  4. Shrinkage/swelling by connection of “shrinkage grooves” (optional)
- Comparable against reference measurements
- Reproduction of characteristic points such as initial set and final set with graphic markers
- Permissible deviations definable with envelopes
- Evaluation, Excel export and printouts possible during measurement
- Automatic logging of all measurements
- Dynamic e-modulus calculation and display
- Option: external temperature measurement by thermocouples (-40 ... 1820 °C)
- Option: measurement of shrinkage/swelling by connection of “shrinkage grooves”

Advantages of Ultrasonic Measurements

- Precise display of the setting process
- Immediately visible results at different formulations
- Exact reproducibility of measurement results
- Identification of deviations at an early stage
- Strength development from initial mix to 28-day strength in a single measurement
- Easy handling and operation makes it perfect for laboratory use
- Easy demoulding and refilling of the measuring moulds
- Ideally suited for quality assurance and production
- Up to 30% reductions in development time and cost
- Software available in various languages

We would be pleased to present our system at your premises. Just give us a call!

UltraTest Systems - References

Construction Chemicals, Additives

Refactories, Castables

Cement, Concrete, Construction Materials

Mortar, plaster, Composite System

Facades, Floor, Roofing Systems, Drywall

Universities, Research, Teaching