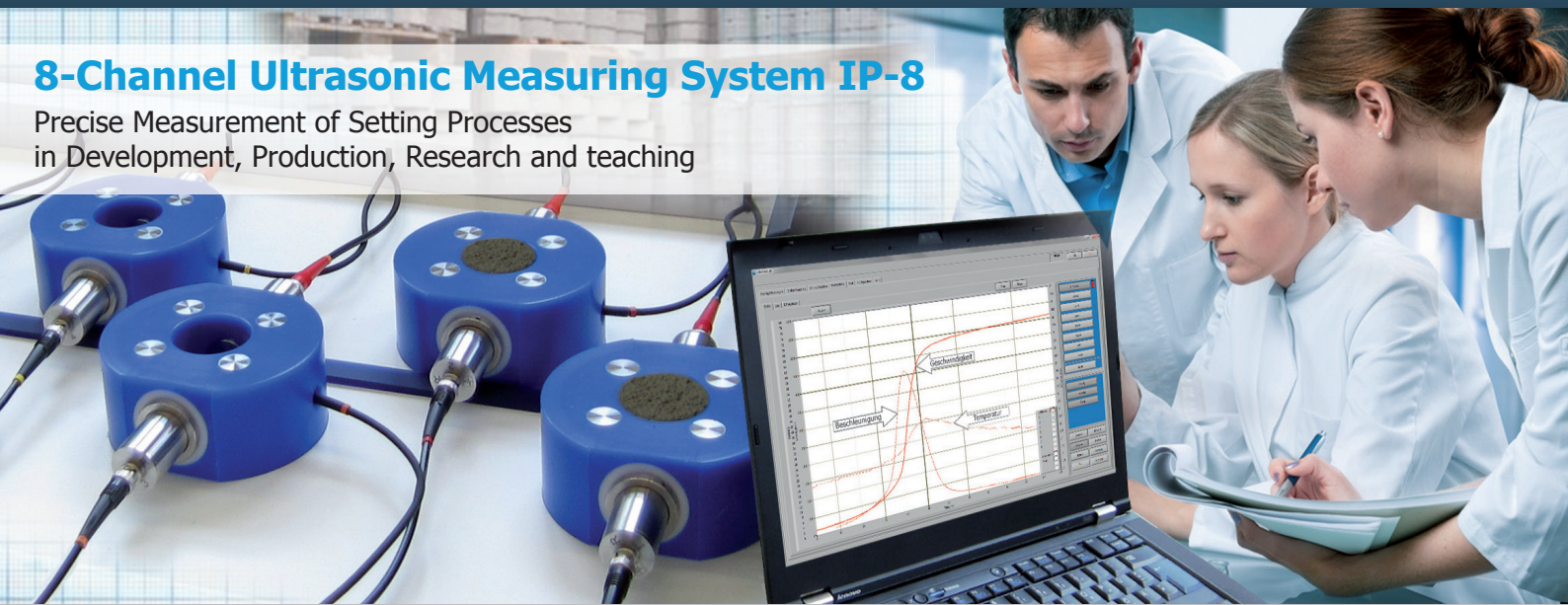




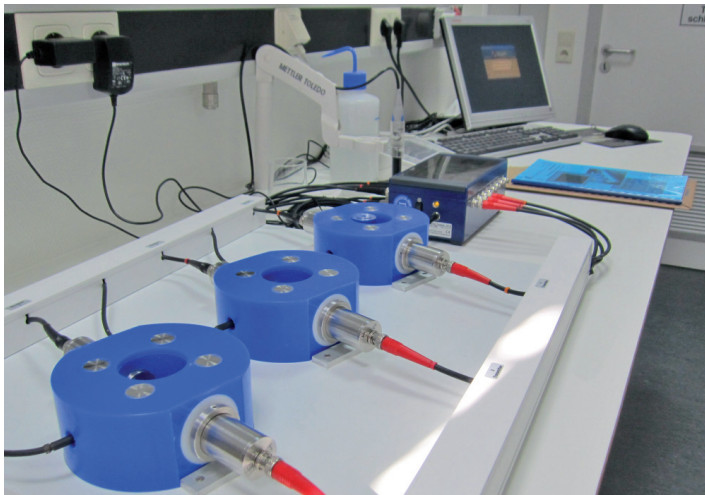
## 8-Channel Ultrasonic Measuring System IP-8

Precise Measurement of Setting Processes  
in Development, Production, Research and teaching

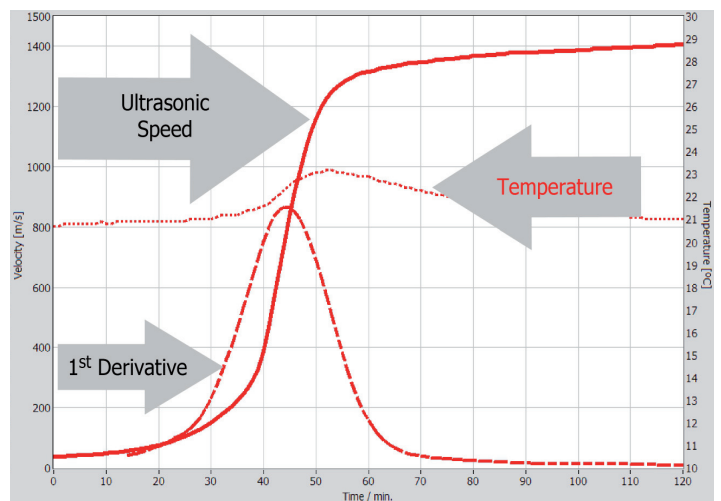


## Contemporary Measuring of Setting Processes

### IP-8 System in use



### Analysis of Ultrasonic Speed



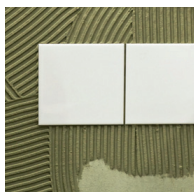
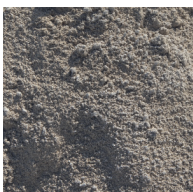
## 8-Channel Ultrasonic Measuring System IP-8

### Main Features

- High-precision measuring system (resolution 0.05  $\mu$ s)
- 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

### 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<sup>®</sup> - Control and Evaluation Software

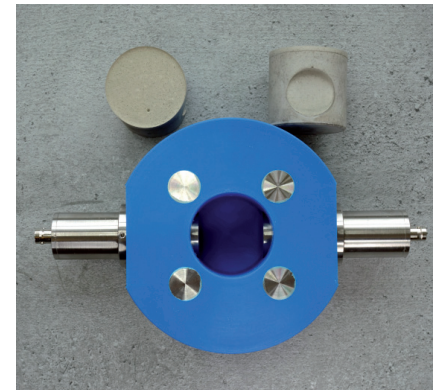
- Intuitive operating concept with a clearly arranged user interface
- Measurement duration: 15 minutes - 31 days
- Measurement interval: 10 seconds - 60 minutes
- During measurement simultaneously visible:
  1. **Speed** in m/s or **runtime** in  $\mu$ s
  2. Curve **derivation** (acceleration) and 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"

Designed mit



## 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



### Refractories, Castables



### Cement, Concrete, Construction Materials



### Mortar, Plaster, Composite Systems



### Facades, Floor, Roofing Systems, Drywall



### Universities, Research, Teaching

