

## Online Moisture Measuring Systems

- Since 40 years one of the leading manufacturers of online moisture measuring systems
- Latest development of high frequency electronic measuring technology (HPR method)
- Thousands of systems approved in use worldwide



### FSV

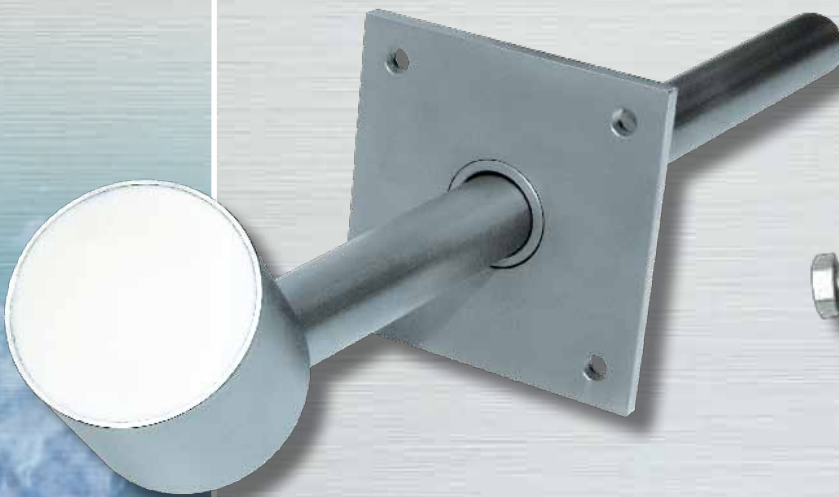
The approved sensor with continuously variable installation depth.

Screw-on cable; replaceable ceramic disc; degree of protection IP68



### FS1

The disc-sensor in the traditional housing but with newest high tech measuring electronics.



### FSA

Special configuration for measuring the moisture in the streaming of material (e.g. silo outlet).

Continuously adjustable - even when built-in.

Screw-on cable; replaceable ceramic disc; degree of protection IP68



### FSM

Extreme robust and highly stable mixer moisture sensor. Changeable wear protection.

Screw-on cable; replaceable ceramic disc; degree of protection IP68

## Research and Development

- Since 40 years one of the leading manufacturers of online moisture measuring systems
- Innovation based own research - and development department
- Customer - specific solutions thanks to flexible and individual in - house assembly
- All sensors are developed and manufactured in Germany

## Facts and Information

Werne & Thiel moisture measuring sensors always represent the latest technology of our well-proven HPR-Method (High Frequency Dielectric Polarisation and Field Refraction) and offer unique precision and reliability. Since decades we are in touch with our customers to be able to always give him an innovative product perfectly fitting his needs.

Sensors of the newest generation are available by different replaceable wear protections:

- NEW:**
- **Special-Ceramic** (extremely abrasion resistant)
  - **Wear resistant rubber** (abrasion resistant, impact proof)

Accuracy: 0.1% . . . 0.5% depending on installation situation and correct calibration

Easy calibration of the sensor by integrated adjustment unit

Output Signal: 0-10 V or 0/4-20mA - *no additional processing unit required*

Operating voltage: 9-30V DC (also available +15V DC and -15V DC)

- NEW:** Specific appointment of moisture thanks internal digital linearization of the measuring signal

### Samples of application area:

- Moisture content of sand, gravel, etc in concrete production
- Reprocessing of foundry sand for desired moisture content
- Moisture content of quartz sand e.g. for glass manufacture
- Quality optimizing in food processing
- Corn production
- Fodder industry for animal food
- Woodworking Industry (wood chips, sawdust, wood shavings, wood pellets production)
- Ceramic powders and pastes; metal oxides
- Sludge from the sewage plants

## Application pictures (examples)



Armprobe FSA in a Silo (empty)



(same Silo - seen from outside)



FSV on a glider



FSV gravel measurement 3 pcs. FSV probes (Sandsilo)



FSM (mixer bottom)



FSM (mixer wall)



Untere Muehlewiesen 2a, 79793 Wutoeschingen, Germany  
Phone +49 7746 2425, Fax +49 7746 2588  
info@werne-thiel.de, www.werne-thiel.de