

BENEFIT FROM OVER 20 YEARS OF EXPERIENCE







We are...

- middle-sized company
- 10 employees
- Head Office in Wutoeschingen in the very South of Germany
- Founded in 2001
- Founder and boss Johannes Mergl





Why everybody should have an ACO moisture measurement...

- Cost reduction through optimized production processes
- Quality improvement by extended control and regulation options
- Energy saving
- Improving the ecological footprint
- Secure competitiveness for the future





ACO measures the moisture in ...













Feed

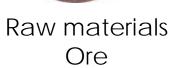
Food

Minerals

Gypsum

Clay Ceramics







Environment



Energy



Recycling



Foils



Chemistry Pharma



Moisture Measurement in practice...

Analogue and digital measuring systems for every installation location

Sensors

- High quality technic
- Rugged design
- Universal use
- Easy handling



Process integration

- Proven installation kits
- Long-term experience in pratice
- Individual solutions

Our service

... includes everything from advice and sales, installation and calibration on site, to laboratory tests and training for your staff, all from a single source.



ACO sensor family **DMMS**

The DMMS system combines high flexibility with easy installation and high comfort.

- moisture measurement with up to 16 sensors
- High accuracy
- Calibration in process
- Easy to extend
- Material switching per sensor
- Continuous measurement or batch operation
- Measured value transmission via Profibus, Profinet or analogue signal
- Optional sensor variants for explosion-proof areas, extended temperature range up to 100°C, silo, mixer, acid-resistant housing



ACO sensor family **BMMS**

The BMMS sensor combines the advantages of calibration in process with direct transfer of measured values in its compact design.

- Compact digital sensor solution without evaluation unit
- Moisture sensor 1:1 exchangeable
- Easy to use
- In-process calibration
- Multipoint and polynomial calibration
- Calibration by intuitive software
- Direct analogue measured value transmission (4...20mA)
- Automatic batch measurement





ACO sensor family MMS

The MMS sensor stands for universal application, simple installation and the best price-performance ratio

- Autonomous sensor
- Robust and simple
- Calibration takes place on the sensor outside the process
- Decades of proven measuring circuitry
- Direct analogue measured value transmission
- Optional variants with PT100 temperature measurement, silo, mixer, measuring surface with teflon or rubber





ACO Installation kits

Installation kits for process installation of the moisture measurement



TFM1 - compaction unit



SFM1_HACK - compaction unit



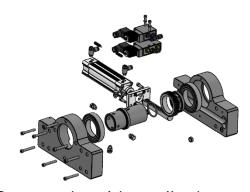
SFM1 – compaction unit



PN1 – sample taker



SFM4 – screw conveyor



Customized installation solutions



ACO sensor slide

Sensor slide in various finishes and materials depending on application

Slide made of various materials





Sensor slide mounting bracket with slide and flansh Slide for installation under conveyor belt





ACO all about moisture measurement...

Portable moisture measurement | laboratory moisture measument | air-humidity transmitter



Portable moisture measurement



Laboratory moisture measurement



air-humidity transmitter hygrometer



ACO sensors in the field...



Pomace



Cocoa beans



Wood chips



Gypsum fibre boards



FGD-Gypsum



Sawdust



Further examples...



Limestone



Sewage sludge



Salt



Lignite ashes



Clay



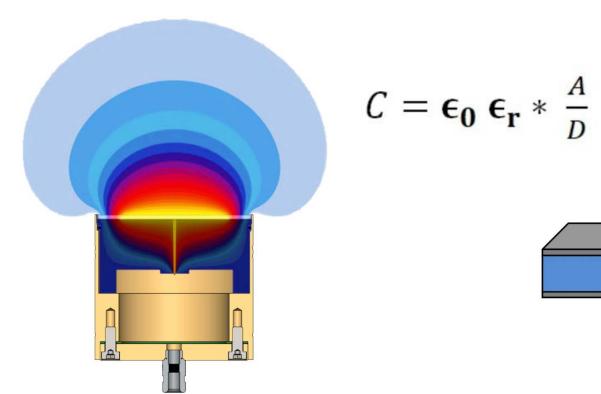
Iron ore

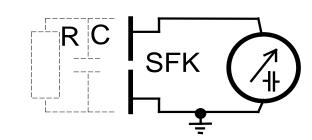


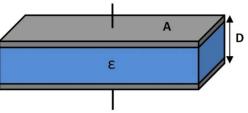
ACO measuring priciple – an indirect method...

All ACO sensors work on the capacative measuring principle. They are influenced by the permittivity of material to be measured.

Free water influences this permittivity. This physical change can be measured and evaluated in a complex way.



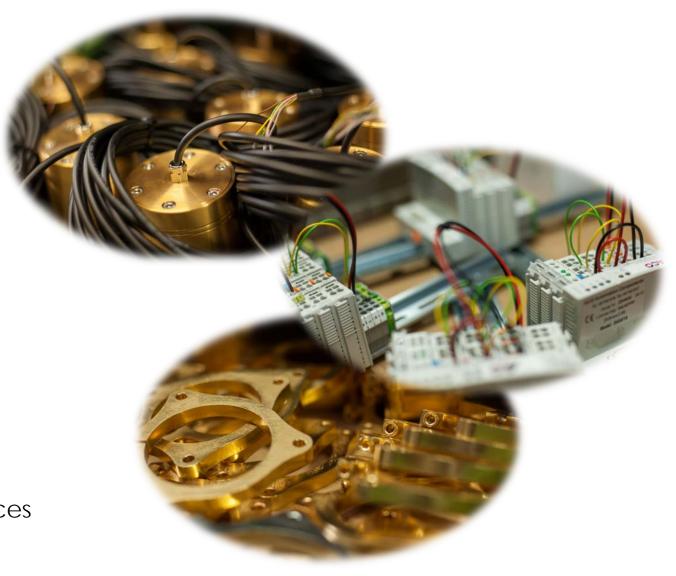






Why ACO...

- Comprehensive advice
- Developed by practitioners
- Reliable quality and service
- Easy to use
- Proven measuring principle
- Good price-performance ratio
- Robust technology
- Flexible systems
- Universally applicable
- Low sensitivity to environmental influences
- Handy sensor dimension





Checklist for a Moisture Measurement...

- Which material shall be measured?
- Are there several materials to be measured?
- Which moisture range is to be measured?
- What are the material and ambient temperature?
- Where should the moisture measurement be integrated?
- Is the material in bulk, powder, sludge or similiar?
- What is the desired accuracy?
- How should the measured value be transmitted (analogue, ProfiBus, ProfiNet)?
- Is EX approval required?







FEUCHTEMESSUNG MOISTURE MEASUREMENT

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