Measuring Systems for Solids and more ...

Mütec philosophy
"An idea alone is not enough. It must transcend the existing and represent a real improvement." This has been the guiding philosophy of Mütec Instruments since its founding in 1970 and has led to innovative products that set new standards in performance, quality and reliability. **Mütec Instruments** offers solutions for even the most complicated problems. Our team of highly experienced technical sales professionals and engineers works closely with each client to design a perfectly tailored solution and often forms a close and long-term working relationship with those customers.

Our products
At Mütec Instruments, we do all the work ourselves from the initial concept to the finished product. This means that all new developments comply with the strictest criteria and have been optimised for performance and functionality. Worldwide, our customers benefit from this standard.

Our goal
We will continue to lead our field, offering innovative ideas and products that help our customers solve complex problems and streamline operations, thus saving time and money and improving their own products.

35 Year Experience and Competence

Development ◆ Production ◆ Sales ◆ Service

Mütec Instruments GmbH Tel.:+49 (0) 4185-80 83-0
Bei den Kämpen 26 Fax:+49 (0) 4185-80 83-80 Web: www.muetec.de
D-21220 Seevetal-Ramelsloh
Germany

HUMY 3000

In-line moisture measurements in solids, such as granules, powders and pellets, even in hazardous environments.

Our digital moisture measurement method with a watch-dog function guarantees the highest accuracy by eliminating transmission errors. All measurements are shown in large digital and analog read-outs on the high resolution LCD. Soft-keys and a graphical user interface allow on easy and comfortable operation. Automatic temperature and long-term drift compensation as well as digital, and analog and alarm outputs are standard.

Characteristics:

- Continuous monitoring and keeping record
- Enables high cost savings
- Improving of product quality
- Accuracy better than 0,1 % (depending from product)
- Easy and inexpensive installation
- Very short return-on-invest

MF 3000

Mass Flow of Solids

Equipped with the newest microwave technology, our solid flow meter MF 3000 is designed for flow measurement in metallic pipes from a few kg/h to many t/h. The system is suitable for on-line measurements of powders, dust, pellets, and granular from 1 nm up to 2 cm in pneumatic or free fall condition. Installation is simple and cost effective via a welded base, through which the sensor is screwed flush with the inside of the pipe.

Characteristics:

- For pneumatic conveyors and freefalling processes
- IN-LINE measuring without weighing
- Easy installation and putting into work
- Contact less and integral measuring
- Robust, compact, maintenance free

Serie FlowSWITCH ...

Monitoring of bulk materials in the conveying stream with each optimal measuring principle

The sensors of the series FlowSWITCH serve for the monitoring of solids in the conveying stream. With these devices flow disturbances are recognized at the transport of powders, dusts, Pellets or granules early. Through this problems which e.g. arise from blockages, material absence or system-result can be prevented reliably. Different measuring principles guarantee the optimal sensor for every application.

FlowSWITCH 700E: Elektrostatic
FlowSWITCH 600E: Elektrostatic
FlowSWITCH 500M: Microwave
FlowSWITCH 350C: Capacitive

Characteristics:

- For every application the right measuring principle
- Electrostatic, microwave, capacitive
- Adjustable sensitivity
- From a few g/h to many t/h
- For pipes, conveyor belts, screw conveyors, silos, etc.
- Easy installation by compact forms of construction

LevelCHECK 350M

Level switch for solid material

LevelCHECK 350M works with the capacitive measuring principle. If (rising) bulk material comes in the electrical field on the sensor surface resp. gets in contact with the sensor surface, the electrical field will be damped. This function will be evaluated from the electronic and converted into a mA or switching signal. (To adapt different kinds of materials, the sensitivity of the sensor can be adjusted.)

Characteristics:

- Reliable microwave measuring principle
- For all solid materials
- For level measuring in silos, container, etc.
- Adjustable sensitivity
- Easy installation by compact forms of construction
- Process connection by flange, thread, etc.

SCS 3000

Multi-measuring system with different measuring principles for simultaneous inline-measurings and monitoring of solid materials

Moisture and mass flow can be measured simultaneously with the new developed measuring system SCS3000 and additional sensors for monitoring can be used. Suitable sensors are HUMY3000 IN-Line moisture measurement, MF3000 for the mass flow measuring and monitoring sensors of the series FlowSwitch and LevelCheck for material flow recognising, Flow/No Flow and level. The different measuring principles like microwave, electrostatic and capacitive guarantee an optimal adaptation to each bulk material.

Characteristics:

- For all solid materials
- Multifunctional continuously measuring and monitoring:
- Moisture, mass flow and monitoring
- For every application the right measuring principle:
- Electrostatic, microwave, capacitive
- For pipes, conveyor belts, screw conveyors, silos, etc.
- Easy and inexpensive installation of the sensors

Service

Test measurement / Rent

Do you want to know if the moisture or the flow rate can be measured with your bulk material?
We can carry out a competent test measurement at your process and/or place
our measuring instruments for rent to your disposal.

Material examination

Bulk materials has multiple features and structures. You are requested to send us a sample of your bulk material.
We are able to carry out extensive material examinations in our technical laboratory,
in order to determine the measuring feature of the bulk material.

Planning

Experiences in planning and construction of i.e. cabinets and racks since many decades,
guarantee that they are produced optimal and effectively for our customers.

Start-up

Experienced staff can carry out the putting into work for you.

a) Wiring, parameterization,…;
b) Installation, calibration,…

Our staff take care about all operations concerning to the putting into works quickly and professionally.

Mütec Instruments GmbH
Bei den Kämpen 26
21220 Seevetal
Germany
Tel.: +49 (0) 4185-80 83 0
www.muetec.de

Measuring systems for solid materials

- Moisture
- Mass flow
- Monitoring (Level, Flow, Flow/No Flow)

I/O Interface / Signal converters

- Failsafe transmitter and transmitter supply to DIN19250 AK4 and IEC61508 SIL2
- 19“- I/O Interface and signal converters
- DIN-Rail I/O Interface and signal converters
- Head mounted transmitter
- Relative humidity
- Test- and simulation devices
- Digital- and bargraphdisplays

Services

- Test measuring / Material examination
- Planning
- Putting into work / Service
- Maintenance
- SIL analysis