ENERGY SOLUTIONS REENBANK

On-Line Moisture monitoring system HUMY3000

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Application and Function

The moisture in solids is an important parameter which strongly influences the quality of the product and can increase the economic efficiency of a production fundamentally. HUMY 3000 is in many processes successfully in use, e.g. for sugar, tobacco, grain, malt, flour, coal, sand, wood shavings, dried food, fertilizer, powder, pigments and plastic granules.

As installation places conveyor belts, screw conveyors, silos, funnels are particularly suitable. The inline moisture measurement is also possible in batch processes.

At the measuring the relative permittivity and the high-frequency recession of the solid is measured in the high-frequency range. The measurement procedure makes a short and simple calibration as well as a high precision better than 0.1% possible. The measuring probe transmits the data digitally. This makes the measurement assignment disturbance insensitive and allows a distance of the sensor to the end judging unity up to 1000m.

The system supervising itself has an integrated data logger besides an automatic compensation of temperature and ageing drift, digital and alarm exits. On the LC display are represented the measurements analogously and digitally.

A simple control and parameter setting of all functions is carried out via soft keys. For product or process changes different product parameters can be stored.

Main Benefits

No samples for the laboratory necessary
Saving of energy costs
Improvement on the product quality
Very short amortization time
High selective sensitiveness

High measuring speed

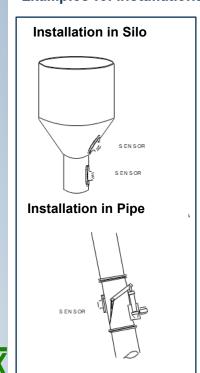
Precision better than 0.1% (depends on product)

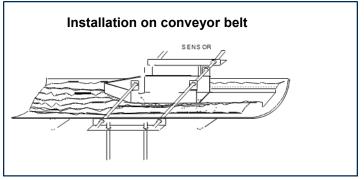
Easy and economic installation

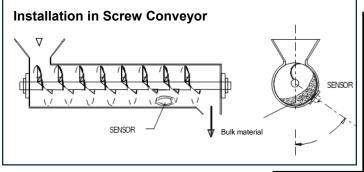
Fast and simple calibration

Optional ATEX-Version for zone 20 and zone 0

Examples for Installations







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Application examples of successfully measured products

Chemistry, pharmacy

Powders, granules, tablets, pasta, foils, fertilizer, phosphate, salt, potash, washingpowder, Styrofoam, synthetic material, PVC, acryl, pigments

Food and semiluxury food

Grain, strength, flour, malt, hop, soya, rape seed, corn, lenses rice, pasta, beans, sugar beets, beet mash, beet pulp, confectionery, cereals, snack meal, raw coffee, food means, fish meal, dried food, potato products, flour, chips, flakes, sauce powders, powdered milks, spices, nuts

Building materials:

Sand/gravel quartz powder-sand, bricks (raw material), ceramic (raw material), plaster

Recycling:

Bio-, sludge, compost

Other:

Wood shavings, wood flour, coal, coal dust, tobacco, foundry sand, glass/ceramic

Applications



Sand



Animal feed



Mounting in discharge (wood-fired power plant)



Grain



Cereals



Coal



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