On-line moisture sensor type MMS 0.-.-for steady measurement of bulk goods and other kinds of aggregates

Qualities:

- measurement of moisture in bulk goods
- variable installation depth of the sensor till 60 mm
- extreme fast measuring times (on-line)
- easy adjustment
- signal output of moisture content 0/4 - 20 mA or 0/2 - 10 VDC analog
- measuring range free adjustable
- universal for most applications
- custom made solutions on demand
- self-cleaning by material flow



Description:

The moisture sensors are developed for the toughest applications and for industrial use.

They are developed after experiences from the practice for permanent use, they function according the principle of HFC-FFM principle (High Frequency Capacitive + Field Frequency Modulation) and without a lot of difficulties anywhere - also additional - to be paced in the process.

By using de norm signal output the sensor can be connected to every SPS or controller without additional

The output signal (material moisture content) can be used for recipe corrections, continue measuring, dryer control, blow control and a lot more applications.

Almost every bulk material till a corn size of circa 12 mm can be measured - like f.i. sand, minerals, cereals, granulates, quartz sand, ore, sludge etc.

Ask for our material list!



Moisture measurement

technical data • order key

Operation power Operation current 24 VDC (9-30 VDC) max, 60 mA at 24 VDC 120 mA at 12 VDC max. 2,5 VA

Power consumption Signal output

voltage 0/2-10 VDC (Standard) current 0-20 mA or 4-20 mA (optional)

(galvanically separated)

till circa. 145 mm

Measuring-/penetration depth

(kern- and surface moisture)

Frequency

27 MHz

Max. signal output values

U: 0-13 VDC at R=10 kOhm I: 0-24 mA atR=500 Ohm

I: 4-24 mA at R=500 Ohm

Measuring range

free adjustable

(0-20% standard for sand)

Max. installation depth

till wall thickness of 60 mm

Ambient temperature

0-60°C at r.m. DIN40040 r.m. < 95% (optional 80°C)

Material temperature Storage temperature

> 4°C (measurement on ice not possible) -25°C - 90°C at r.m. DIN 40040, r.m. < 95%

Accuracy / reproducibility Protection (continual) against Temperature protection

0,1% of the measuring range (lab values) wrongly connected, short circuit, overvoltage electronics fully moulded

Connection cable

Housing Protection class

Measuring surface

3 m (standard) 5 x 0.21 shielded

SS 316 polished

IP 67

zirkoniumoxideceramic

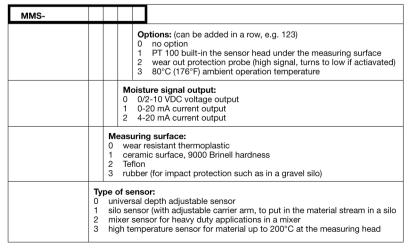
Options

• integrated PT 100 temperature sensing device for 2 or 4 wired switch

· wear-out signal in the sensor (5VDC High-signal)

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