

# ANALOGUE MOISTURE MEASURING SYSTEM • sensors MMS

**Physical measuring principle:**

High frequency dielectric shift

**Operating voltage:**

24 VDC (9...30 VDC)

**Signal output:**

0/2...10 VDC; 0/4...20 mA  
galvanically isolated

**Protection against:**

wrong polarity, over voltage, short circuit

**Measuring depth into the material:**

up to 150 mm  
(depending on material)

**Moisture measuring range:**

0...100% (free selectable)

**Accuracy:**

+/- 0,1%

**Ambient temperature:**

0... 60° C

**Material temperature:**

> 4° C (no measuring on ice)

**Sensor housing:**

diameter 76 mm, length 70 mm

**Measuring surface:**

ceramic 2 mm, for mixer sensors 10 mm  
circon oxide ceramic ( $ZrO_2Al_2O_3$ ), Teflon

**Installation depth:**

up to 60 mm wall depth;  
Silo sensor: arm length 600 mm

**Housing silo arm:**

stainless steel V4A, polished, galvanized

**Sensor mounting:**

clamping flange or mounting flange (silo)

**Options:**

integrated PT100 temperature probe  
wear out protection probe  
80° C ambient temperature

## Standard sensor MMS-0

for installation in silo walls, at materials chutes, on or under conveyor belts (with **ACO** sensor sleighs), in tubes and screw conveyors.

## Silo sensor MMS-1

for installation inside silos and flow path bins for measuring directly in the material flow.

## Mixer sensor MMS-2

for moisture measuring at installation places with extremely heavy mechanical load on the sensor (e.g. mixers) or for highly abrasive materials (10 mm ceramic disc).

## High temperature sensor MMS-3

for moisture measuring at installation places with very high material temperatures up to 200°C and ambient temperatures up to max. 80°C.

