

DIGITAL MOISTURE MEASURING SYSTEM • sensors DMMS

Physical measuring principle:

high frequency dielectric shift

Operating voltage:

24 VDC (9...30 VDC)

Protection against:

wrong polarity, over voltage, short circuit

Measuring value interface:

digital: RS485

Measuring depth into the material:

up to 150 mm
(depending on material)

Temperature measuring range:

-10° C...90° C
(integrated temperature probe)

Moisture measuring range:

0...100% free selectable

Accuracy:

+/- 0,05%
(under optimum process conditions)

Operating / Ambient temperature:

0... 80° C

Material temperature:

> 4° C (no measuring on ice)

Sensor housing:

Diameter 76 mm, length 70 mm
mixer sensor 78 mm diameter

Measuring surface:

ceramic 2 mm, for mixer sensors 10 mm
(zircon 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 mountig:

clamping flange or mounting flange (silo)


Options:

mixer sensor 10 mm ceramic
silo sensor 600 mm carrier arm
100° C increased ambient temperature
Ex Zone 22 (dust)

Digital sensor DMMS-0

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

Option:

Zone 22 II 3D ExtD A22 IP6x T85°C 6x 



Digital silo sensor DMMS-1

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

Digital mixer sensor DMMS-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).

Planar sensor EX

with approval for
Ex-Zone 20/21 (dust)
nach ATEX CE Ex II 1/2D, T 80°C IP6x Eex ia II C
Ex-Zone 0/1 (gas)
nach ATEX CE Ex II 1/2G, EEx d ia II C T6

