



MOISTURE SENSOR SC-7800

CAPACITANCE MEASUREMENT

For the measurement of the moisture in bulk material to build in walls / bottoms of mixing and preparation machines, silos, bins and hopper.

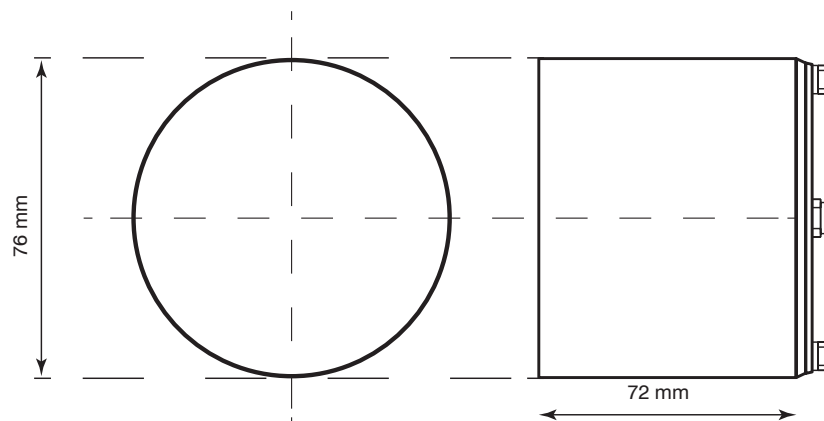


High depth of penetration

Easy calibration

Fast integration in available control units

Preferably used for the preparation of mineral bulk materials





MOISTURE SENSOR SC-7800

CAPACITANCE MEASUREMENT

TECHNICAL DATA

PROTECTION OF ELECTRONIC

Overvoltage, reverse polarity and short-circuit of the output. All inputs and outputs are protected against disturbances with suppression filters.

MOUNTING OF THE SENSOR EDGE

- adjustable between 0-50 mm

MEASUREMENT RANGE & CALIBRATION

0 and % adjusting trimmer for calibrating the sensor. These allow one to adjust the measuring window of the probe to the desired range of moisture measurements for the material. Accessible only through a water tight screw on the sensor cover.

ENVIRONMENTAL CONDITIONS

Standard: up to +50°C
Optional: up to +80°C

PROBE FEEDING

- 24 V DC

DEGREE OF PROTECTION

- IP68

MATERIAL TEMPERATURE SENSOR

- PT100 (optional)

SENSOR WEAR PROTECTION

Standard: Plastic surface
Special-Ceramic: 3mm strong, extremely abrasion-resistant, brittle
Special-Rubber: Abrasion resistant, shock resistant
Teflon: Food-safe, low material adhesion

CONFORMANCE

- CE-Conform EMV89/336EWG

LIGHTNING PROTECTION

In open air installations, the sensor can be damaged by lightning. In addition to reducing the risk by observing the guide lines laid down in the standard, VDE 185, parts 1 and 2, it is necessary to equalize the potential between the sensor and the processing electronic unit. This is achieved by earthing the cable shielding at both ends.

SIGNAL OUTPUT

0-20 mA, 4-20 mA
Load resistance: 500 Ω 0,1%, TK = 25 ppm

CURRENT CONSUMPTION

- 70mA at 24 V power supply

PROBE CONNECTION

- 5-pin connector