

## Moisture Sensor **SC-7800**

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



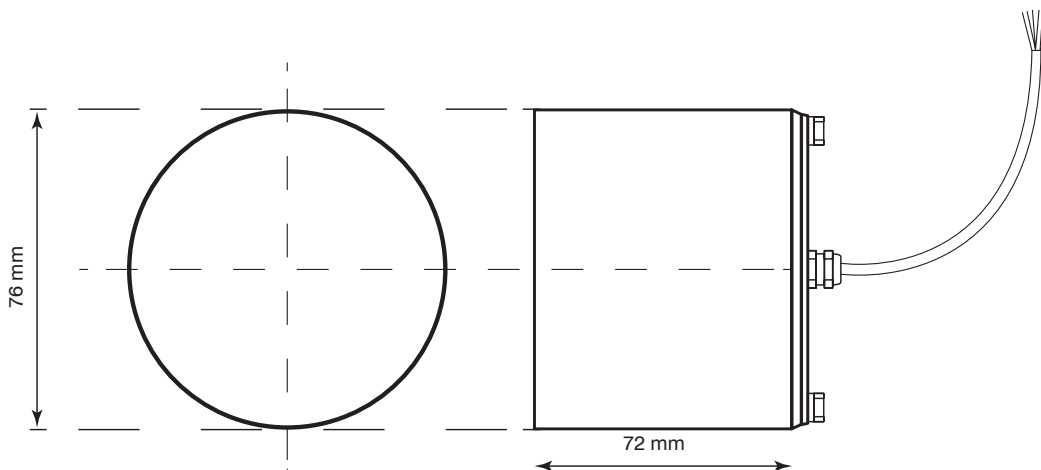
Capacitance measurement

High depth of penetration

Easy calibration

Fast integration in available control units

Preferably used for the preparation of mineral bulk materials



### PROTECTION OF ELECTRONIC

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

### DEPTH OF INSERTION OF THE SENSOR EDGE

Continuously adjustable from 0 to approx. 50 mm

### MEASUREMENT RANGE AND INTERNAL CALIBRATION OF THE SENSOR

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 IN OPERATION MODE

Standard: +0,5°C to +50°C

Optional: +0,5°C to +80°C

### SENSOR SUPPLY

24 V DC

### PROTECTION

IP68

### TEMPERATURE SENSOR

PT100 (optional)

### SIGNAL OUTPUT

0-20 mA

### CURRENT INPUT

70 mA for 24 V supply

### SENSOR COVER

Synthetic, Teflon, Ceramic, Rubber

### LIGHTNING

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.

### CONNECTION

Cabel: 5 x 0,22 mm<sup>2</sup> shielded

### CONFORMANCE

CE Standard EMW 89 / 336 EWG