



Microwave Sensors for Concrete

Microwave Sensor for Pan Mixers Type 6 and for Mixers with Rotating Mixing Pan, Conical Mixers, Single and Twin-Shaft Mixers Type 7



Measurement Frequency: 433 MHz
Measurement Area: All consistency areas
Temperature Area: 0 to + 60 °C
Output: 0-20 mA, 0-10 V DC
Power Supply: 18-24 V DC

Size of Sensor:
Type 6: diameter 105 mm, length 100 mm
Type 7: diameter 90 mm, length 80 mm

Size of Mounting Attachment:
Type 6: diameter 150 mm, height 35 mm
Type 7: diameter 122 mm, height 30 mm

Microwave Sensor for Mixers with Rotating Mixing Pan Type 8



Measurement Frequency: 433 MHz
Measurement Area: All consistency areas
Temperature Area: 0 to + 60 °C
Output: 0-20 mA, 0-10 V DC
Power Supply: 18-24 V DC

Size of Sensor:
Depending on the mixer
Maximum length including mounting attachment 1.20 m

Size of Mounting Attachment:
Depending on the mixer

Characteristics of the Bikotronic Microwave Sensors for Concrete:

- Wear plate which can be easily exchanged by the customer, it is not necessary to exchange the complete sensor (type 6 and 7)
- Extremely wear-resistant ceramic plate, 10 mm (= 3/8") thick over the whole surface
- Bikotronic offers the right sensors for all types of mixers e. g. counter-current planetary mixers, pan mixers, twin-shaft and single-shaft mixers.
- Temperature stable electronics from 0 to 60°C
- Absolute linearity which makes it possible to measure precisely the moisture content of very dry concrete as well as very wet concrete
- The sensors have been developed in cooperation with the chair for high frequency engineering of the technical faculty of the Christian-Albrecht-University in Kiel. The measurement accuracy of the Bikotronic microwave sensors in the laboratory is better than 0.1%.

Microwave Sensors for Sand / Aggregates



MS 150

Microwave Pipe Sensor
Moisture Measurement in the Silo

Measurement Frequency: 433 MHz
 Output: 0-20 mA
 Power Supply: 15- 24 V DC
 Range of Moisture: 0 - 18 % (depending on the material)
 Measuring Accuracy: +/- 0,3 % (depending on the material)
 Measures Sensor: Diameter 55 mm, length 670 mm
 Measures Mounting Attachment: WHD130 x 120 x 140 mm

MB 110

Microwave Belt Sensor
Moisture Measurement on a Conveyor Belt

Measurement Frequency: 433 MHz
 Output: 0-20 mA, 0-10 V DC
 Power Supply: 15-24 V DC
 Range of Moisture: 0 - 20 % (depending on the material)
 Measuring Accuracy: +/- 0,3 % (depending on the material)
 Measures Sensor: Length from fixation 260 mm, total length 500 mm
 Height of material on the belt: at least 60 mm



Conductivity / High-Frequency Sensors for Sand / Aggregates



BS 240

Conductivity Pipe Sensor
Moisture Measurement in the Silo

Output: 0-20 mA
 Power Supply: 15-24 V DC
 Range of Moisture: 0 - 20 % (depending on the material)
 Measuring Accuracy: +/- 0,3 % (depending on the material)
 Measures Sensor: Diameter 55 mm, length 450 mm
 Measures Mounting Attachment: WHD110 x 120 x 130 mm

LB 50

Conductivity Belt Sensors
Moisture Measurement on a Belt

Output: 0-20 mA
 Power Supply: 15-24 V DC
 Range of Moisture: 0 - 20 % (depending on the material)
 Measuring Accuracy: +/- 0,3 % (depending on the material)
 Measures Sensor: Length from fixation 200 mm
 Distance between Sensors: approx. 150 mm
 Height of material on the belt: at least 50 mm

