

FL-SlimLine

Microwave Moisture Measuring System for Wireless Measured Value Transmission



Usage and applications

Moisture measurement of bulk materials in rotating mix drums, especially in the concrete and precast industry.

Special Features

- ▶ Prevents material build-ups at the sensor's measuring surface.
- ▶ Installation of additional cleaning equipment is unnecessary.
- ▶ No additional rinse water or cleaning agent will enter the batch and cause contamination.
- ▶ Reliable moisture measurement even with small or partial batches.
- ▶ Reliable recording of mix temperature.
- ▶ The risk of contamination due to residue from previous batches is minimized when alternating recipes.
- ▶ Wear and Tear of our sensor is greatly reduced because it rotates with the mixer drum, eliminating friction and damage from passing materials or debris.
- ▶ Long operating time by using of changeable, high-performance rechargeable batteries.
- ▶ Reliable measuring signal transmission through industrial-grade „WIRELESS“.
- ▶ Easy installation through compact dimension of probe and transmitting unit.

Microwave Moisture Sensor (Technical Data)

Power Supply	+3,7V DC (+/-10%)
Outputs (analog)	0-20 mA (Moisture Measuring Value) 0-3,2 V (Temperature)
Measuring Range of integrated temperature sensor	0 - 80°C
Power consumption	0,08W
Frequency	433,92MHz
Temperature Working Range	0 – 50°C
Connecting Line	500mm, mit 5-poligem Steckverbinder für Sendeeinheit
Dimension	Ø: 75mm / Höhe: 22,5mm
Weight	0,4 kg
Cover	Stainless Steel / IP 68 Sensor's measuring surface made of high wear resistant ceramic

Sensor Holder (Technical Data)

Welding Ring	Ø: 128mm / Height: 15mm / Weight: 0,6kg / zined
Wear Protection Tube	Ø: 106mm / Height: 22,5mm / Weight: 0,7kg / zined

Transmitter (Technical Data)

Cover (dimension with holder)	Height: 31mm / Width: 135mm / Depth:190mm (with antenna) Plastic / IP 54
Connection Option	1 Microwave Moisture Measuring Probe FL-MOBIMIC-SlimLine
Temperature Range	0 – 50°C
Power Supply	via Battery Pack

Receiver (Technical Data)

Cover	Height: 60mm / Width: 137mm / Depth: 165mm Aluminium / IP 68
Power Supply	24 V DC (+/- 10%)
Power Consumption	7 Watt
Temperature RangeGenauigkeit	0 – 50°C
Accuracy	Depending to measure range and material (appr.+/-0,3%)
System Connections	Analog Outputs (Moisture 0-20mA / Temp. 4-20mA)

Battery-Pack (Technical Data)

Cover (dimension with holder)	Height: 31mm / Width: 135mm / Depth: 215mm (with handle) Plastic / IP 54
Connecting Line	Length: 250mm; with connector for Transmitter
Battery Life	approx. 7-day continuous operation
Voltage	+ 3,7 V
Temperature Range	0 – 50°C
Gehäuse	Kunststoff (IP54)