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### **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.

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#### **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 contannination.
- → 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 senor 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 / zinced
Wear Protection Tube	Ø: 106mm / Height: 22,5mm / Weight: 0,7kg / zinced

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## **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)

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