



FL-MOBIMIC-SlimLine

Microwave Moisture Measuring System for Wireless Measured Value Transmission



Application Fields

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



Installation of Transmitting unit and Changeable Battery Pack at a mixer drum



Probe installation in a rotating mixer floor

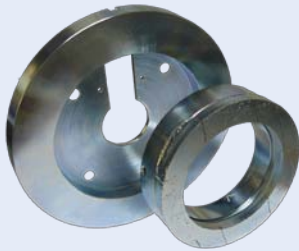
Special Features

- 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 Probe



Power Supply	+3,7 V 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	0,08 Watt
Frequency	433,92 MHz
Temperature Working Range	0...+80°C
Connecting Line	Length: 500 mm / with five pole miniature round connector for transmitting unit
Dimension	Ø: 75 mm / H: 22,5 mm
Weight	0,4 kg
Cover	Stainless Steel / IP 68 Sensor's measuring surface made of high wear resistant ceramic



Probe holder

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

Transmitter

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



Receiver

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



Battery Pack

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

