

Wireless Moisture Sensor

Flexible sensor applications



RFM2100

APPLICATIONS

- Moisture monitoring
- Rain monitoring
- Moisture content
- Building materials
- Corrosion prevention
- Food and grain monitoring

KEY FEATURES

- Standard temperature range
-40 °C to +85 °C
- Powered by Magnus® S2
- Flexible sensor design
- Battery-free design
- Sensor size
101.7 x 31.9 mm
- Adhesive backing

Battery-free equipment monitoring

The RFM2100 is a wireless battery-free moisture sensor. This flexible sensor is designed to monitor environmental and material moisture content over a wide range of settings. Typical applications include bulk materials, grain and food products, as well as building and roofing materials.

Wireless moisture sensor

The RFM2100 has a standard operating temperature range of -40°C to +85 °C. This covers the typical operating temperatures of most equipment and environmental operating conditions.

Flexible easy to install design

The RFM2100 is built using flexible materials with a built-in adhesive strip. The RFM2100 incorporates an integrated RF antenna to harvest energy for the moisture sensing function, as well as to communicate with a RAIN/UHF compliant reader. The integrated antenna is configured to be sensitive to moisture and rain but is not suitable for direct use on metal.

Compliance

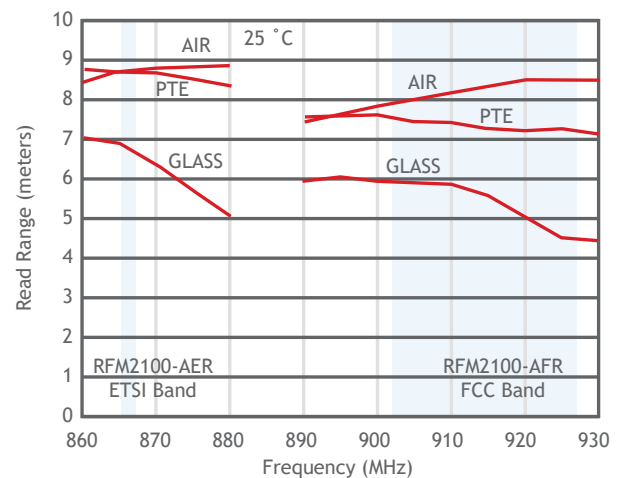
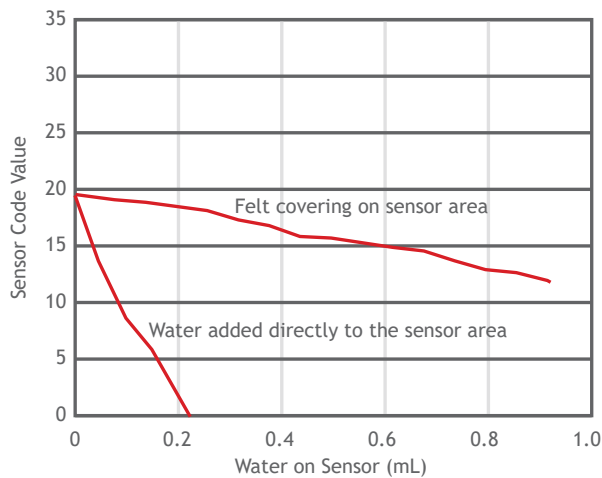
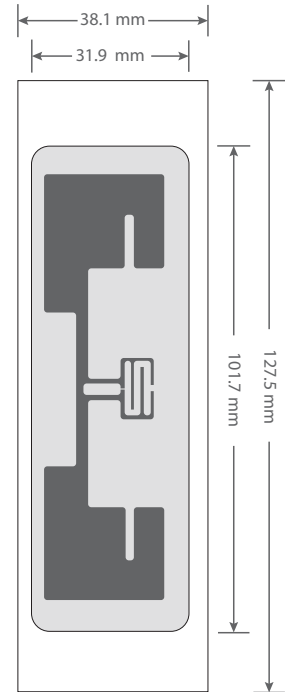
The RFM2100 is available in FCC and EU/ETSI frequency ranges. The RFM2100 requires a RAIN/UHF compliant reader. These sensors can be purchased separately or as part of a complete system.



RFM2100 Performance Data

Flexible sensor for moisture monitoring applications

PARAMETER	VALUE
Normal temperature range	-40 °C to +85 °C
Compatible standards	EPC class 1 gen 2 v2.0.1 ISO 18000-6C
Integrated circuit	Powered by Magnus® S2
TID memory	64-bits
EPC memory	160-bits supporting up to 128-bit EPC
User memory	144-bits
Sensor die cut size	101.7 x 31.9 mm
Sensor pitch	38.1 mm
Web width	127.5 mm
Adhesive	Self-stick with easy release tab
Shipment method	Roll
Minimum order quantity	25 pc MOQ
Ordering information	RFM2100-AFR (FCC 902 to 928 MHz) RFM2100-AER (ETSI 865.6 MHz to 867.6MHz)



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