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## Wireless Moisture and Temperature Sensor

Flexible sensor applications

AXZ-BN AZN3100-AFF A X Z-G-N AZN3100-AFR A X Z-G-N AZN3100-AFR Moisture and Temperature TBR-607-01 Powered by Magnus®

#### Battery-free equipment monitoring

The AZN3100 is a wireless battery-free moisture and temperature sensor. This flexible sensor is designed to monitor environmental and material moisture and temperature content over a wide range of settings. This sensor is optimized for direct contact with moisture or water droplets. Typical applications include bulk materials, grain, and food products, as well as building and roofing materials.

### APPLICATIONS

Moisture monitoring Rain monitoring Moisture content Building materials Corrosion prevention Temperature monitoring

#### **KEY FEATURES**

Standard temperature range -40 °C to +85 °C Powered by Magnus® S3 Flexible sensor design Battery-free design Sensor size 101.7 x 31.9 mm Adhesive backing

#### Wireless moisture and temperature sensor

The AZN3100 has a standard operating temperature range of  $-40^{\circ}$ C to  $+85^{\circ}$ C. This covers the typical operating temperatures of most equipment and environmental operating conditions.

#### Flexible easy to install design

The AZN3100 is built using flexible materials with a built-in adhesive strip. The AZN3100 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 AZN3100 is available in FCC and EU/ETSI frequency ranges. The AZN3100 requires a RAIN/UHF compliant reader. These sensors can be purchased separately or as part of a complete system.

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# AZN3100 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	<b>←</b> 38.1 mm
Integrated circuit	Powered by Magnus® S3	→ 31.9 mm →
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	127.5 mm
Adhesive	Self-stick with easy release tab	
Shipment method	Roll	
Minimum order quantity	25 pc MOQ	
Ordering information	AZN3100-AFR (FCC 902 to 928 MHz) AZN3100-AER (ETSI 865.6 MHz to 867.6MHz)	



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