Wireless Temperature Sensor

Flexible sensor applications

Battery-free equipment monitoring

The AZN3200 is a wireless battery-free temperature sensor. This flexible sensor is designed to monitor environmental and material temperatures in a wide range of settings. Typical applications include environmental temperature monitoring, bulk material temperature monitoring, data center chiller and cooling monitoring, as well as cold chain monitoring at key shipment centers.

Wireless temperature sensing

The AZN3200 has a standard operating temperature range of -40°C to +85°C. This covers the nominal operating temperatures of most equipment and environmental operating conditions. The AZN3200 reports temperature beyond its normal operating range to as high as +125°C, although prolonged operation at elevated temperatures is not recommended.

Flexible easy to install design

The AZN3200 is built using flexible materials with a built-in adhesive strip. It incorporates an integrated RF antenna to harvest energy for the temperature sensing function, as well as to communicate with a RAIN/UHF compliant reader. The integrated antenna is configured to be relatively insensitive to moisture and rain but is not suitable for direct use on metal.
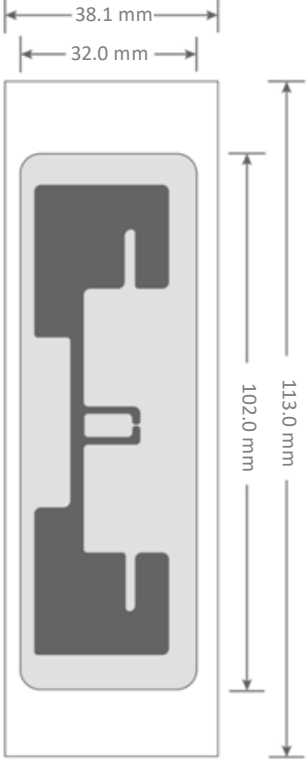
Compliance

The AZN3200 AAR is an "ALL Regions" tag that can be used for FCC and EU/ETSI frequency ranges. The AZN3200 requires a RAIN/UHF compliant reader. These sensors can be purchased separately or as part of a kit.
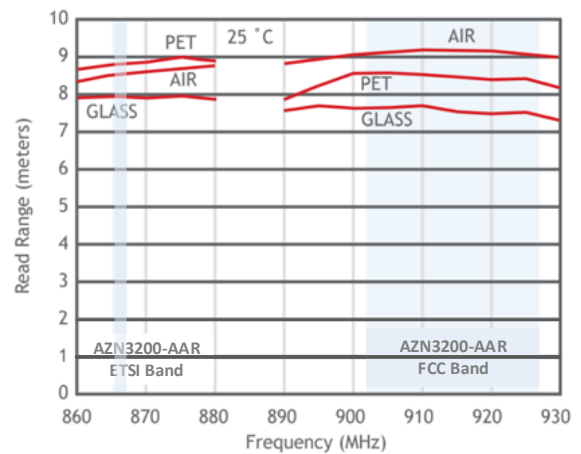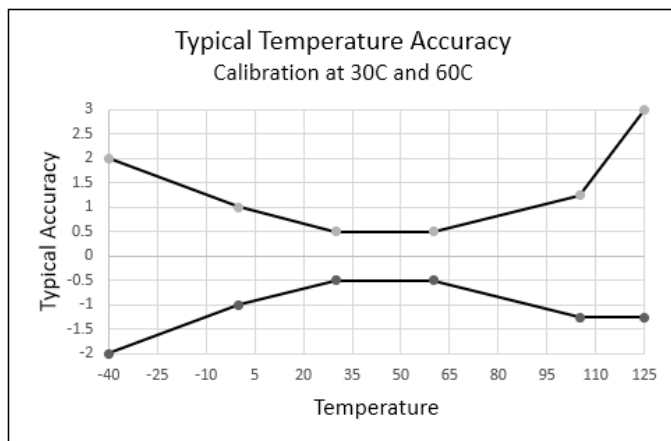
APPLICATIONS
Environmental monitoring
Bulk material monitoring
Data center monitoring
Interior temperatures
Equipment monitoring
Point of shipment cold chain

KEY FEATURES
Standard temperature range
-40°C to +85°C
Extended temperature range
-40°C to +125°C
Powered by Magnus® S3
Flexible sensor design
Battery-free design
Sensor size
32.0 x 102.0 mm
Adhesive backing

AZN3200 Performance Data

Flexible temperature sensor for monitoring applications

PARAMETER	VALUE
Normal temperature range	-40˚C to +85˚C
Extended temperature range	-40˚C to +125˚C
Compatible standards	EPC class 1 gen 2 v2.0.1 ISO 18000-6C
Integrated circuit	Powered by Magnus® S3
TID memory	64-bits
EPC memory	160-bits supporting up to 128-bit EPC
User memory	128-bits
Sensor die cut size	32.0 x 102.0 mm
Sensor pitch	38.1 mm
Web width	113.0 mm
Adhesive	Self-stick with easy release tab
Shipment method	Roll
Minimum order quantity	25 pc MOQ
Ordering information	AZN3200-AAR (FCC 902 to 928 MHz) AZN3200-AAR (ETSI 865.6 MHz to 867.6 MHz)

Typical Temperature Accuracy
Calibration at 30C and 60C