Wireless Temperature Sensor

Long-range sensor for on-metal applications

APPLICATIONS

Switchgear monitoring
Electric busbar monitoring
Factory power mains
Data center power

KEY FEATURES

Normal temperature range
-40 °C to +85 °C
High-temperature alarm up
to +125 °C
Powered by Magnus® S3
Sensor size
50 x 52.5 x 3.55 mm
Battery-free design
Long read range: 19

Battery-free equipment monitoring

The AZN3240 is a wireless battery-free temperature sensor. This rugged sensor monitors electric distribution and switching equipment temperatures. Applications include utility-grade electric power distribution, factory and industrial electric service switch-gear and other applications where metal surfaces are common.

Wireless temperature sensing

The AZN3240 has a normal operating temperature range of -40°C to +85 °C. This covers the typical operating temperatures of most equipment over a range of environmental operating conditions. The AZN3240 reports temperatures beyond its normal operating range to as high as +125 °C, although prolonged operation at such an elevated temperature is not recommended.

Rugged design for use on metal and equipment

The AZN3240 incorporates a rugged antenna design for harsh environments subject to temperature extremes. The integrated RF antenna harvests energy for the temperature sensing function, as well as communicates with a RAIN/UHF compliant reader. The integrated antenna is suitable for use on metal surfaces.

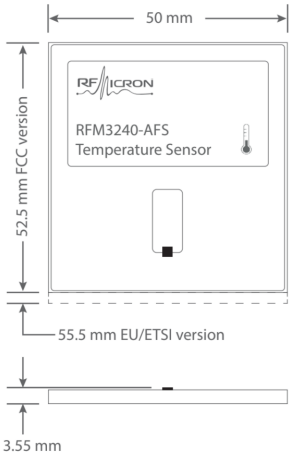
Compliance

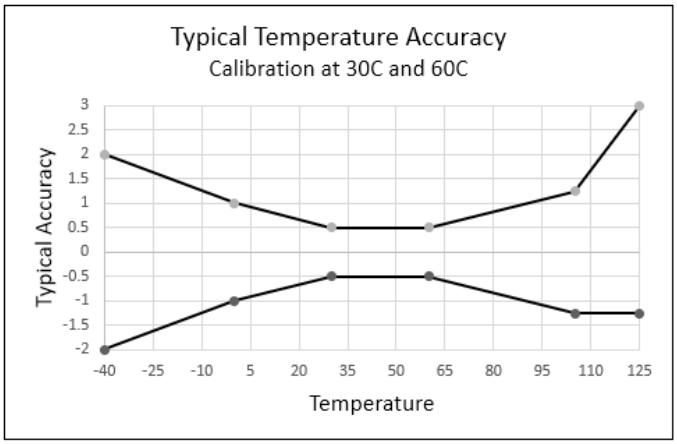
The AZN3240 is available in FCC and ETSI/EU frequency ranges. The AZN3240 requires a RAIN/UHF compliant reader. These sensors can be purchased separately or as part of a system.

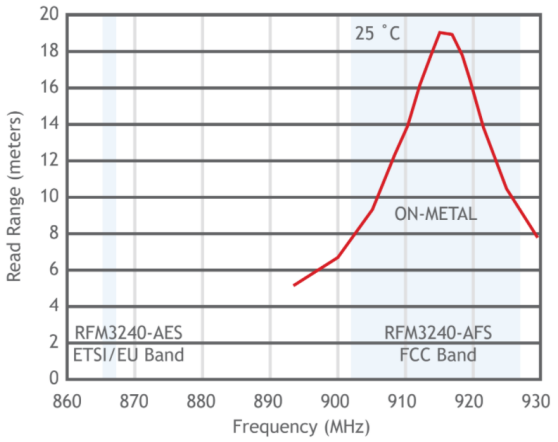
AZN3240 Performance Data

Long-range temperature sensor for on-metal and industrial applications

PARAMETER	VALUE
Normal temperature range	-40 °C to +85 °C
High-temperature alarm	Up 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
EPC programming code	Pre-programmed with a 4-character ASCII code
User memory	128-bits
Sensor Size	50 x 52.5 x 3.55 mm (FCC) 50 x 55.5 x 3.55 mm (ETSI/EU)
Mounting	Self-stick adhesive with easy-release backing
Shipment method	Singulated in plastic bag
Minimum order quantity	10 pc MOQ
Ordering information	AZN3240-AFS (FCC 902 to 928 MHz) AZN3240-AES (ETSI/EU 865.6 MHz to 867.6MHz)







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