



## Wireless Temperature Sensor

Rugged for on-metal applications



AZN3256

### APPLICATIONS

- Switchgear contactor points
- Electric busbar monitoring
- Predictive maintenance
- Monitor electric motors
- Monitor HVAC efficiency
- Monitor AC switchgear

### KEY FEATURES

- Normal temperature range  
-40 °C to +85 °C
- Extended High-temperature  
up to +125 °C
- Sensor size  
13.6 x 9.9 x 4.7 mm
- Battery-free design
- Adhesive backing
- Powered by Magnus® S3

### Battery-free equipment monitoring

The AZN3256 is a wireless battery-free temperature sensor. This rugged sensor is designed for switchgear contactor points, busbars, and equipment temperatures in harsh and extreme environments. Other uses include electric motor protection, bearing temperature monitoring, heating, and cooling equipment (HVAC) efficiency monitoring, and other applications where metal surfaces are common.

### Wireless temperature sensing

The AZN3256 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 AZN3256 can be used at extended temperatures beyond its normal operating range to as high as +125 °C, with some loss of Reading accuracy.

### Rugged design for use on metal and equipment

The AZN3256 is built with a robust composite antenna and is ideal for harsh environments subject to temperature extremes and elements.

The integrated RF antenna harvests energy for the temperature sensing function and communicates with a RAIN/UHF compliant reader. In addition, the integrated antenna is suitable for use on-metal surfaces that might otherwise adversely affect wireless/RF communication range.

### Compliance

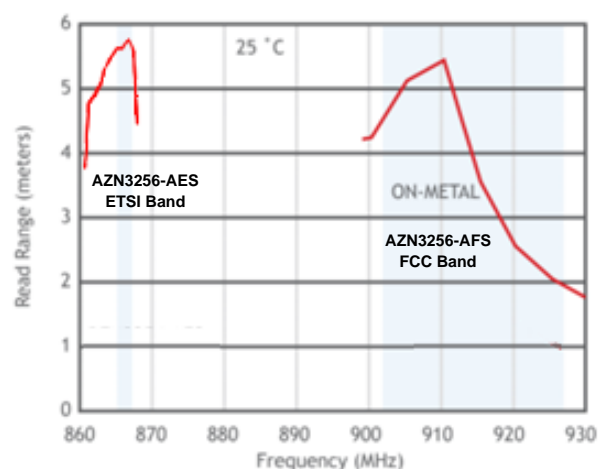
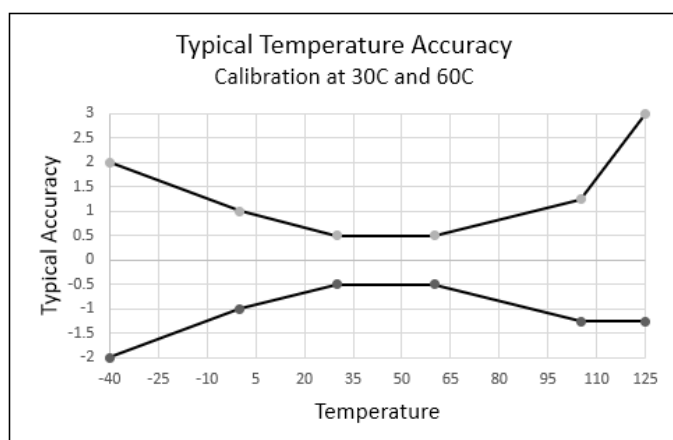
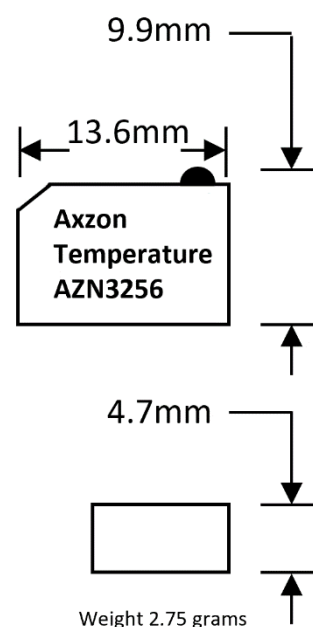
The AZN3256 is available in FCC and EU/ETSI frequency ranges. The AZN3256 requires a RAIN/UHF compliant reader.



## AZN3256 Performance Data

Rugged temperature sensor for on-metal and industrial applications

PARAMETER	VALUE
Normal temperature range	-40 °C to +85 °C
Extended High-temperature	Up to +125 °C, with loss of reading accuracy to approx +/-1 °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 Size	13.6 x 9.9 x 4.7 mm
Adhesive	Self-stick with an easy-release tab
Shipment method	Packing tray
Minimum order quantity	15 pc MOQ
Ordering information	AZN3256-AFS (FCC 902 to 928 MHz) AZN3256-AES (ETSI 865.6 MHz to 867.6MHz)



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