



# Wireless Temperature Sensor

Built For On-Body Applications



AZN3230

## Battery-Free Equipment Monitoring

The AZN3230 is a battery-free sensor designed to monitor a person's body and core temperature. While the AZN3230 can be utilized in various settings, it is best suited for medical and athletic applications. This product attaches to any part of the human body, constantly detecting the body's core temperature. Monitoring the core temperature has a vast array of benefits, from early infection and illness detection to athletic performance optimization and dehydration prevention.

## Wireless Temperature Sensing

The AZN3230 has an operating temperature range of  $-40\text{ }^{\circ}\text{C}$  to  $+125\text{ }^{\circ}\text{C}$ . The human body's average temperature sits somewhere between  $36.1\text{ }^{\circ}\text{C}$  to  $37.2\text{ }^{\circ}\text{C}$  and illness is initially detected at  $38\text{ }^{\circ}\text{C}$ , all of which is well within AZN3230's scope. The sensor is powered by Axzon's signature Magnus® technology and maintains its precision when attached to the human body, allowing for incredibly accurate readings in all conditions.

### APPLICATIONS

Athletics  
Medicine  
Body Temperature Monitoring  
Core Temperature Monitoring

### KEY FEATURES

**Normal Temperature Range:**  
 $-40\text{ }^{\circ}\text{C}$  to  $+85\text{ }^{\circ}\text{C}$

**Extended Temperature Range:**  
 $+85\text{ }^{\circ}\text{C}$  to  $+125\text{ }^{\circ}\text{C}$

**Sensor Dimensions:**  
82 x 38 mm

**On-Body Read Range:**  
1.6m to 2m

Battery-Free Design  
Powered by Magnus®-3E IC3

## Designed For Use On-Body Use

**Medicine and Prevention** - Body temperature deviation from its normal range is the leading indication of bacterial or viral infections. When attached to any part of a patient's body, the AZN3230 sensor detects any sudden or gradual change in body temperature. These fluctuations indicate abnormality, providing individuals with the ability to detect infections and viral conditions early.

**Sports and Athletics** - Rigorous athletic activities can be dangerous in the harsh, unforgiving summer sun. Heat illnesses, dehydration, and even strokes are common in these blazing conditions. The AZN3230 monitors a person's body and core temperature, giving users an opportunity to take preventative measures when signs of overheating occur. Monitoring the core temperature also allows athletes to warm up to and maintain their optimal body temperature for high-level performance in frigid conditions.

## Compliance

The AZN3230 is available in FCC and EU/ETSI frequency ranges. The AZN3230 requires a RAIN/UHF compliant reader.



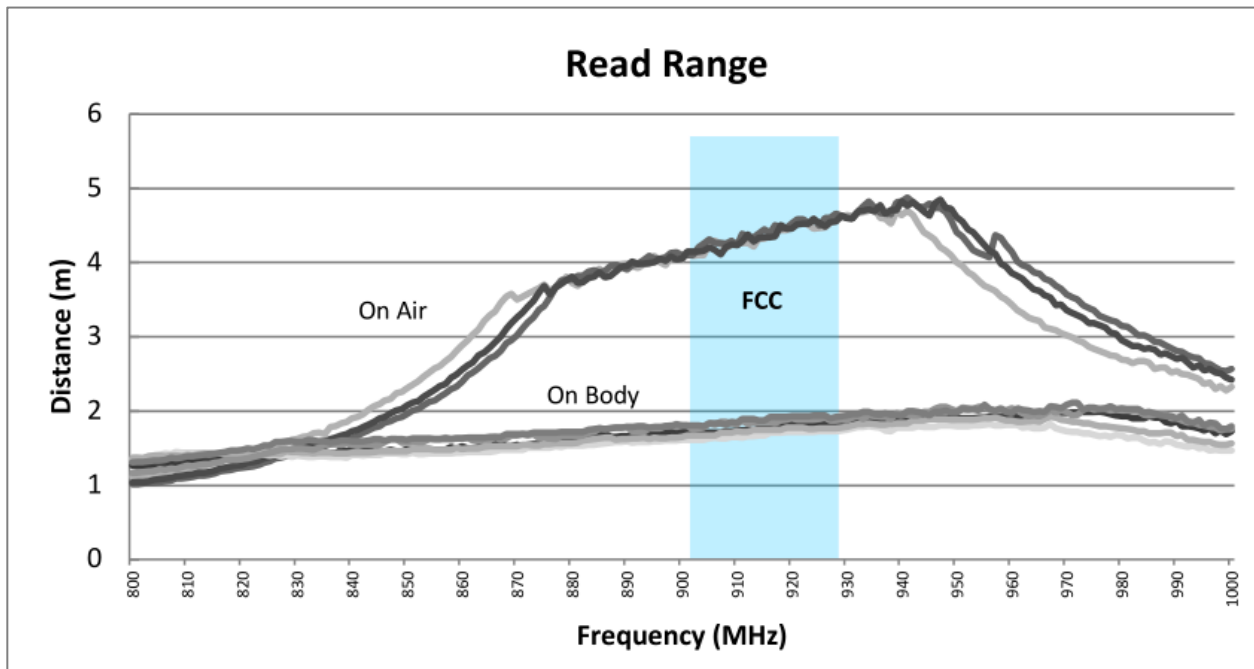
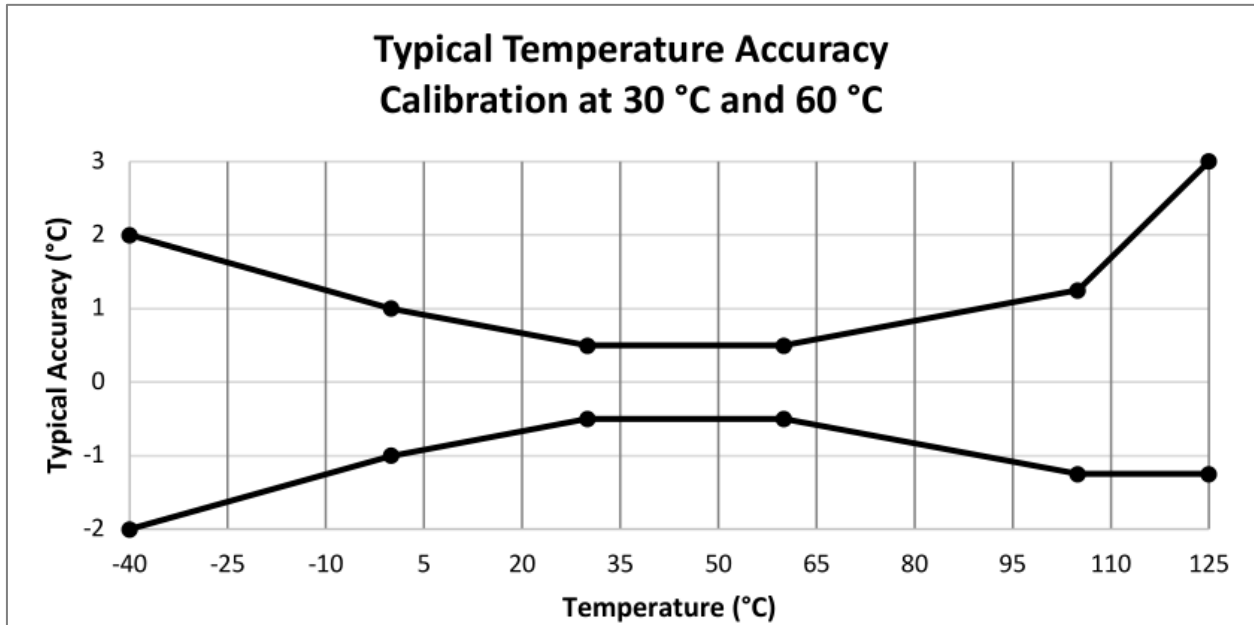
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## AZN3230 Performance Data

Temperature Sensor for On-Body Applications

| PARAMETER                  | VALUE  |
|----------------------------|--|
| Normal Temperature Range   | -40 °C to +85 °C   |
| Extended Temperature Range | +85 °C to +125 °C  |
| Compatible Standards       | EPC class 1 gen 2 v2.0.1<br>ISO 18000-6C   |
| Integrated Circuit         | Powered by Magnus® 3-E IC3   |
| TID Memory                 | 64-bits  |
| EPC Memory                 | 160-bits supporting up to 128-bit EPC  |
| User Memory                | 128-bits   |
| Sensor Size                | 82 x 38 mm   |
| Adhesive                   | Self-stick with an easy-release tab  |
| Shipment Method            | Roll   |
| Ordering Information       | AZN3230-AFS (FCC 902 MHz to 928 MHz)<br>AZN3230-AES (ETSI 865.6 MHz to 867.6MHz) |





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