

# Temperature Sensor Dogbone®

## Overview

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**Frequency Band**

UHF 860 - 960 MHz

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**Chip**

Axzon Magnus S3

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**Antenna Dimensions**

89 x 24 mm / 3.50 x 0.90 in

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**International Standard**

ISO 18000-6C, EPC Class 1 Gen 2

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**Industry Segments**

Industrial Applications  
Healthcare  
Food

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**Applications**

Temperature Sensing  
Cold Chain Management

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**RoHs**

EU Directive 2011/65/EU and  
2015/863 Compliant

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**REACH**

Regulation (EC) No 1907/2006

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## Temperature level sensing inlay

Our state-of-the-art Temperature Sensor Dogbone® brings temperature detection features to the company's product range of passive sensor inlays and tags. It is designed to measure temperature conditions, e.g. in cold chain management, and to detect crucial temperature settings in many other demanding environments.

The Temperature Sensor Dogbone® is a passive UHF inlay equipped with Axzon Magnus®S3. This RFID sensor inlay offers great performance, and accurately detects and measures temperature and optionally moisture levels in the surrounding environment. The temperature sensing range is available as single-point-calibration or two-point-calibration according to customer preferences for measurement accuracy. It provides accurate read results as determined by the customer's selected calibration needs. Additionally, the IC offers the option to read the sensor code and on-chip RSSI (Received Signal Strength Indicator) value to detect how much power the IC is receiving from the reader.

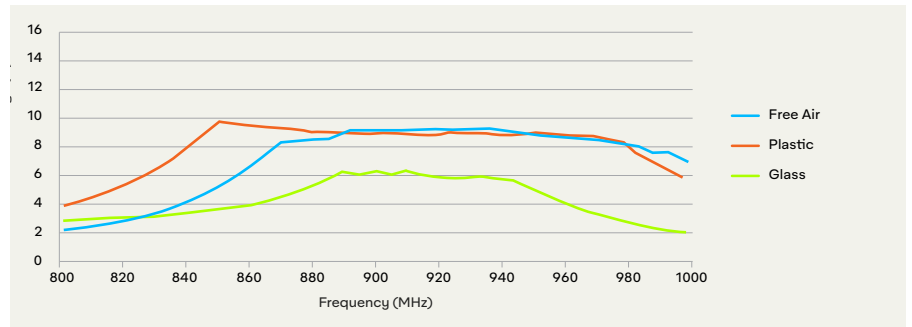
The sensing information is digitized and wirelessly communicated to off-the-shelf readers, and operates with specially developed software for temperature sensing.

The innovative Temperature Sensor Dogbone® is a passive UHF single-chip sensor inlay solution that offers cost-efficiency and ease of implementation.

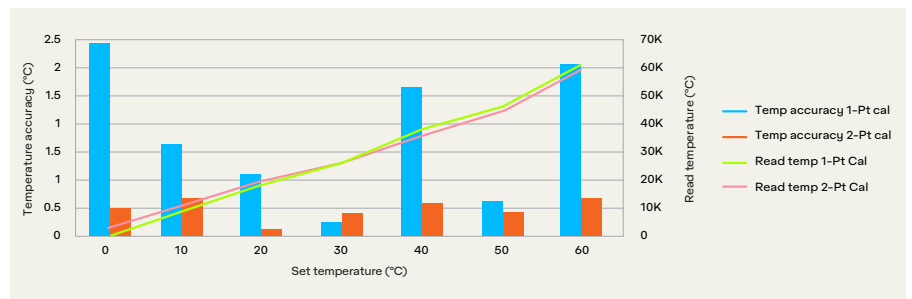
## Technical features

Chip	Axzon Magnus S3
EPC and User Memory	128-bit and 128-bit
TID Memory	Available
Product Code	3005527
Delivery Format	Wet inlay
Die-cut Dimension	97 x 27 mm / 3.82 x 1.06 in
Inlay Substrate	Paper
Standard Pitch	50 mm / 1.969 in
Web Width	100 mm / 4 in
Core Size	76 mm / 3 in
Quantity / Reel	2000 pcs/reel 2000 pcs/box
Operating Temperature	-40 °C to 85 °C / -40 °F to 185 °F

## Read range



## Temperature accuracy



All graphs are indicative: performance in real life applications may vary.

## Contact information

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**Warranty:** Please refer to Avery Dennison standard terms and conditions: [rfid.averydennison.com/termsandconditions](http://rfid.averydennison.com/termsandconditions)

**Care and handling:** RFID inlays are sensitive to ESD. Observe standard industry practices relating to electronics / RFID to keep environmental impact and static charge to a minimum.

**Applications:** This product should be tested by the customer / user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use. Avery Dennison reserves the right to modify, change, supplement or discontinue product offerings at any time without notice. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

