

SENSOR DOGBONE

Moisture Level Sensing Inlay

SMARTRAC's state-of-the-art SENSOR DOGBONE brings new features to the company's inlay and tag product range. It is specially designed to measure moisture conditions in industrial environments, e.g. in construction, energy, healthcare, automotive production and the military.

The SMARTRAC SENSOR DOGBONE is a passive UHF inlay equipped with RFMicron's Magnus®S IC. This RFID sensor inlay offers great performance, and accurately detects and measures moisture levels in the surrounding environment. The sensing information is digitized and wirelessly communicated to off-the-shelf readers using a standard UHF Gen 2 protocol READ command for further processing.

The innovative SENSOR DOGBONE is a passive UHF single-chip sensor inlay solution that offers cost efficiency, is easy to implement, and works on different low- and high-dielectric materials like cardboard, plastics, stone, wood and construction materials. It is deployable where active or semi-active sensors are not practical, and involves no battery maintenance, costs or problems with product lifetime or recycling. It can be delivered in dry, wet and tag format to suit all converting-industry needs, and complies with all relevant industry standards and strict quality control parameters.

The SMARTRAC SENSOR DOGBONE complements industry requirements and represents the state of the art in passive RFID sensing suitable for high-volume production. The passive UHF sensor inlay offers significant possibilities to enhance production control, quality control and maintenance in many different applications.

Overview

Operating Frequency

860 - 960 MHz (ETSI band)

Integrated Circuit (IC)

RFMicron Magnus®S

Antenna Size

89 x 24 mm (3.5 x 0.9 in)

Die-cut Size

97 x 27 mm (3.8 x 1.1 in)

International Standards

- ▶ EPC Class 1 Gen 2 v.2.0.0
- ISO 18000-6C

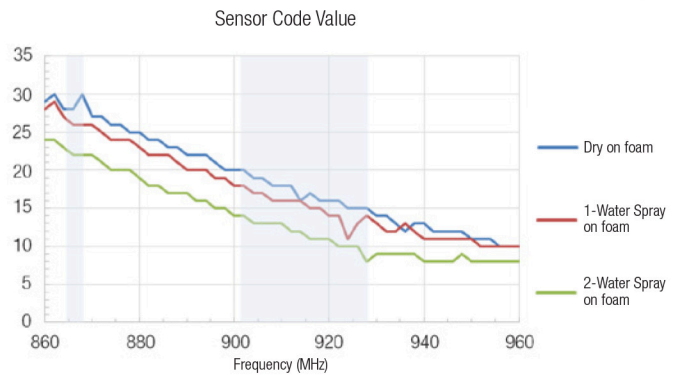
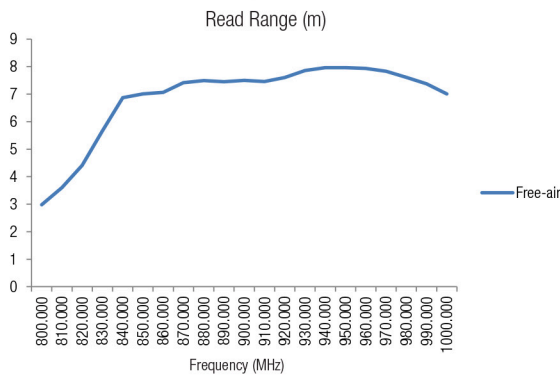
Application Areas

- ▶ Construction
- ▶ Healthcare
- ▶ Automotive
- ▶ ... and many more

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Technical Features	
IC	RFMicron Magnus®S
Memory	64bit TID, 128bit EPC + 144bit User memory
Frequency	860-960 MHz
Antenna Size	89 x 24 mm / 3.5 x 0.9 in
Die-Cut Size	97 x 27 mm / 3.8 x 1.1 in
Web Width	100 mm / 3.94 in
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F
Delivery Format	dry, wet and tag
Adhesive	RA-5
Qty/Reel	500 pcs
Core Size	76 mm / 3 in
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing



All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level.



1.888.238.1155 • Inside USA
1.205.383.2244 • Outside USA

info@atlasRFIDstore.com • www.atlasRFIDstore.com

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