

## TempTag<sup>™</sup>

**Data Sheet** 

Ascendent ID's TempTag™ is a member of our SensorTag family of products. SensorTags integrate Ascendent ID's RFID tags with numerous sensor options for use in a variety of chain of custody security and cold-chain compliance applications. Ascendent ID's TempTags are designed to be attached directly to metal shipping containers, refrigerated trailers, or other movable assets. Our SensorTags feature an auxiliary processor which is capable of communicating with almost any type of sensor to monitor parameters of interest via multiple protocols and standards.

Ascendent ID offers a full range of RFID solutions with specific market focus on vehicle access control (AVI), yard management, toll roads, load tracking, and commercial fueling. For more information about how Ascendent ID's RFID technology can benefit your business, visit our web site at

www.ascendentid.com

### Features Benefits

asset data.

## **Applications**

- » Cold chain compliance
- » Container shipping
- » Yard management



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## TempTag<sup>™</sup>

#### **Data Sheet**

#### **Specifications Parameters**

**Operating Frequency** 2.400-2.483 GHz Nominal Read/Write Range<sup>1</sup> 70 ft (21 m)

Typical Read/Write Range<sup>2</sup> 50 ft (15 m)

**Physical Dimensions** 4.92 x 1.74 x 1.13 in

(12.5 x 4.42 x 2.87 cm)

Weight 4.17 oz (118 g) **Operational Temperature** -40 to +185°F

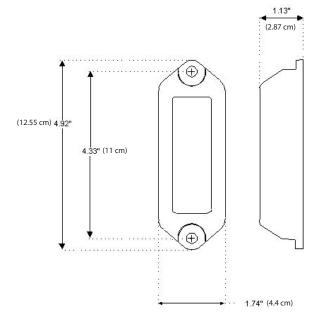
(-40 to +85°C)

Storage Temperature -40 to +185°F

(-40 to +85°C)

Service Life<sup>3</sup> 5 years expected

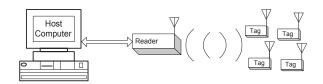
Lithium battery **Battery Type** 



TempTag™ Dimensions

- 1. Nominal Read/Write Range is typical average line-of-site range of the tags when illuminated at the US FCC allowable power level of +36 dBm (28 dBm into a 8.5 dB gain antenna and > 3' cable) in an anechoic chamber with optimum antenna polarization match. (Actual performances will vary depending upon ambient
- Collidions and power level.)
  Typical Read/Write Range is average line-of-site range of the tags when installed in a typical application. (Actual performance will vary depending upon ambient conditions
- Service life dependent on sensor type and typical usage conditions.

# conditions and power level.



#### **Typical Configuration**

A typical system configuration includes a host computer, a reader, and RFID tags (SensorTag).

## **Temperature Logger Specifications**

Temperature Limits: -40 to 176°F (-40° to +80°C) Maximum Sample: 2048 (Other options available) Sample Rate: 1-255 minutes per sample

Digital Thermometer

Increments: 0.9°F (0.5°C)

1.8°F (1°C) from 22°F to +158°F Accuracy:

(-5.6°C to +70°C)

Built-in real-time clock (RTC) and Clock:

> timer has accuracy of +2 minutes per month between 32°F (0°C) and

113°F (45°C)

Selectivity: Programmable to record samples

only when out of user defined range

limits



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