Can Temperature Monitoring Label be used outside?  
Only for a short time. Tag is designed to be a disposable.

Is temperature Monitoring Label mechanically protected?  
No, label should be located in a place where mechanical impacts are not expected.

GENERAL

What are the typical applications for Temperature Monitoring Label?  
This product is designed to be a single-use label for applications where it is crucial to know if goods have been kept within a specific temperature range during the whole transportation. Examples of such applications are fresh food, pharmaceuticals or sensitive chemical transportations.

PERFORMANCE

What factors affect the actual read range?  
In datasheet we use theoretical read range that is measured in anechoic chamber. Read range in real application can differ from this value. Used power, reader setup, surface and environment all have an effect on actual read range and thus testing at final application is always recommended. Hand held readers typically have significantly shorter read range than fixed readers.

Can tags be read in 100’s of pieces at a time?  
Yes, reading of 100’s Temperature Monitoring Label tags at once is not an issue.

Does packages with liquid inside have an impact on performance?  
Yes, when tag attached on package that includes any liquid inside the read range is reduced. Due to the battery assisted performance the read range of Temperature Monitoring Label should still be good. The actual range is always recommended to be tested at final application.

DURABILITY

What chemicals can tags withstand?  
We have identified some chemical tolerances in datasheet for each product. For more specific chemicals please contact Confidex.
**BATTERY ASSISTED MODE**

**What is the lifetime of battery?**
Lifetime of battery is also related to usage temperatures but within general environment the life time is at least 2 months.

**Can I replace the battery?**
No, label is designed to be disposable.

**Is battery always on?**
No, labels are delivered in a passive mode to save the lifetime. Battery should be turned on once label is taken into use. Please refer to our application note for more details of needed commands.

**Can I reduce the read range?**
Yes, in case you don’t need the best available performance you can change the sensitivity mode of IC. Please refer to our application note for more details of needed commands.

**TEMPERATURE MONITORING**

**What is the temperature range I can measure?**
-30°C to +64°C.

**What is the accuracy of measurement?**
Within the whole temperature range the typical accuracy is ±1,0°C. Over the ISO range for cold chain (-1°C to +13°C) the accuracy is ±0,6°C.

**Can I calibrate label by myself?**
Yes, labels are factory calibrated but if needed they can be re-calibrated. For more details please refer to our application note.

**Do I need a specific reader for this product?**
No, you can use any standard EPCGlobal Gen2 RFID reader to read the temperature value.

**Do I need a specific software for this product?**
You need a software that can read specific memory locations and convert that data into temperature value. For more specific details please refer to our application note.

**Can I postpone the time when label starts to measure temperature?**
Yes, you can define a length of delay before measurement is started. This allows the attachment of label in different location than when it’s actually taken into use.

**Can sampling frequency be modified?**
Yes, frequency of measurement can be changed from 5 minutes to 8 hours.

**What do the triggers mean?**
With high and low temperature triggers you can specify temperature range where the product should stay. If trigger is activated you will get that information once label is read.

**Does the label work as temperature logger?**
No, temperature measurements are not stored. Only the timestamp of activated trigger is stored.