

TEMPERATURE LOGGER NFC

Battery-powered Label for Accurate Temperature Monitoring

SMARTRAC's Temperature Logger NFC is a battery-powered label system for accurately logging temperature data in supply-chain applications. By measuring and recording temperature readings during the transport of temperature-sensitive items, Temperature Logger NFC helps customers make informed decisions about shipment quality, inventory and logistics.

SMARTRAC's Temperature Logger NFC incorporates sensor functionality, temperature data-logging capabilities and an integrated NFC inlay in a cost-efficient, disposable label solution. When affixed to a product or container, the thin, flexible label can be programmed to record the temperature history of goods at user-defined intervals during shipment. Once a shipment reaches its destination, the label's temperature data can be downloaded and reviewed from an NFC-enabled device with the easy-to-use Temperature Logger NFC Android app. Each label stores up to 841 data measurements.

Temperature Logger NFC is engineered to perform in different supply-chain environments and accurately detects and records temperature changes. Moreover, it provides trip-level temperature visibility with easily accessible data for consumer and last-mile deliveries.

The label is designed in a standard size of 85.6 × 54 mm and is equipped with an embedded temperature sensor, NFC inlay, real-time clock and data store. There are different label options available upon request with a choice of adhesives and face materials, to which customized graphics or logos may be applied.

Overview

Operating Frequency
13.56 MHz

Integrated Circuit (IC)
AMS AS39513

Label size:
85.6 mm x 54 mm
(3.37 × 2.13 in)

Antenna size:
72.5 × 38.5 mm
(2.85 × 1.52 in)

International Standards

▶ ISO15693 and NFC-V
(T5T) compliant

Application Areas

- ▶ Food & beverage
- ▶ Healthcare
- ▶ Industry for chemicals & polymers
- ▶ Other temperature-sensitive goods

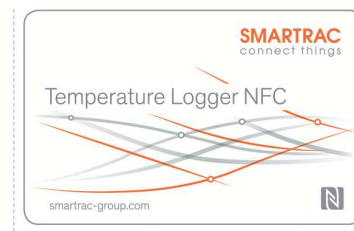
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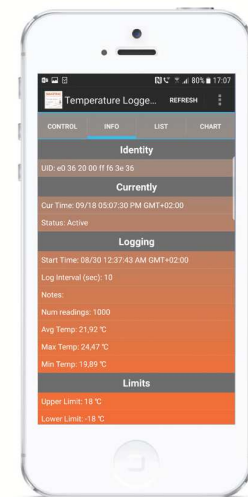
Technical Features			
IC + Memory AMS AS39513 9k bit EEPROM	Size 85.6 mm x 54 mm / 3.37 x 2.13 in	Format Label	Sales Code 3500191
Operating Temperature	-20°C to 50°C / -4°F to +122 °F; Shelf Life Time: >1 year		
Product Temperature Integrity	+/- 0.5 deg C @ -10 to +20° C typical +/- 1.5 deg C @ -20 to -10° C and +20 to +50° C Stores up to 841 data measurements Configurable temperature alarming parameters		
Sustainability	Battery & inlay technology is RoHS certified, REACH compliant EU Battery Directive compliant		
Wireless Communication Compliance	Near Field Communication (NFC), Operating Frequency: 13.56 MHz NFC-enabled Android smartphones and tablets		
Minimum Order Quantity:	200pcs / box		

Temperature Logger NFC App

- Download the "Temperature Logger NFC" app from the Google Play store and launch the app.
- User-configurable tag control
 - ▶ Turn logger on/off
 - ▶ Set high- and low-temperature thresholds
 - ▶ Select temperature recording interval
 - ▶ Optional acclimation time setting
- Data reporting
 - ▶ View temperature data in chart or graphical format
 - ▶ Easily export data into Microsoft Excel



Label size: 85.6 x 54 mm / 3.37 x 2.13 in



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