AD TT Sensor Plus 2

Overview

Frequency Band
13.56 MHz

Chip
NXP NHS3100

Product Dimensions
68 x 26 x 3.5 mm / 2.68 x 1.02 x 0.14 in

International Standard
ISO 14443

Industry Segments
Logistics
Healthcare
Food

Applications
Container / Box Temperature Tracking

RoHS
EU Directive 2011/65/EU and
Directive (EU) 2015/863

REACH
Regulation (EC) No. 1907/2006

NFC for challenging cold-chain environments

The AD TT Sensor Plus 2 is a small, low-cost temperature data logger. It can measure and log the ambient temperature for a period of up to three years. It fits easily into most medical or food packaging to monitor the storage and shipping environments to which products are exposed throughout the supply chain.

It uses a wireless near field communication (NFC) microchip so the stored data can be extracted and transmitted to a reader. The reader can be a PC equipped with a USB NFC Reader and the application software TTScan installed, or an NFC-enabled smartphone with the application TTApp. The internet accessible database TTNet completes the system.

After activation, the AD TT Sensor Plus 2 registers the date, time (in UTC) and temperatures at programmable intervals. It can register up to 100,000 temperature events. Temperature alarm limits can be programmed into the tag, which can give warning signs when the tag is read.

Users of the AD TT Sensor Plus 2 system can view the detailed history of temperatures over a selected period of time. When logged on to the TTNet database, the logged temperatures and other data for a particular tag ID can be viewed.

For security, the database can check whether the smartphone or PC running the TTApp are authorized to read information from the devices or to program the devices.

High security measures are taken to ensure that the data on the TT Sensor Plus 2 cannot be manipulated and the tag cannot be reprogrammed.

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Technical features

Chip	NXP NHS3100
User Memory	12 KBytes [Flash] for logging data
UID Memory	7-bit hard encoded unique serial number
Product Code	BI125 / 3008085 / IL-604066
Delivery Format	Individual sticker
Product Dimension	68 x 26 mm / 2.68 x 1.02 in
Substrate	PCB (glass-reinforced epoxy laminate material)
Face	PP film
Total Thickness	3.5 mm / 0.14 in
Quantity / Box	50 pcs (not on a roll)
Operating Temperature	-30°C to 60°C / -22°F to 140°F
Certificates	Certificate of calibration (T° accuracy) / IATA and FDA part 11 statements

Contact information

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REACH COMPLIANCE

RoHS

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