A Smart Label that Records Time and Temperature
TT Sensor Plus™

Producers and purchasers of temperature-sensitive products, like pharmaceuticals, food and floral, have a vested interest to ensure the quality of their products, as well as to identify supply chain issues that may lead to compromised products.

To address these needs, Avery Dennison offers the TT Sensor Plus™ - a cost-effective, smart label that logs time and temperature.

How It Functions

TT Sensor Plus records the temperatures an item is exposed to throughout its supply chain journey. Based on the temperatures the product is exposed to, TT Sensor Plus can indicate if the item is suitable for its intended use. The data is stored in a Near Field Communication (NFC) chip and can be uploaded to a smartphone at anytime, anywhere throughout the supply chain.

The technology incorporates sensor functionality and temperature data logging capabilities in a cost-effective, disposable label solution. When affixed to a product or container, the thin, flexible label can be programmed, by the user, to record the temperature history of goods at defined timed intervals during shipment.

Once a shipment reaches its destination, the label's temperature data can be uploaded to a smartphone, reviewed and sent from an Android™ smartphone or tablet with the easy-to-use TT Sensor Plus mobile app. Each TT Sensor Plus also contains a unique identifier (UID).

Desirable Form Factor

With its built in flexible battery and NFC chip, the TT Sensor Plus has a very desirable form factor. About the size of a credit card, the TT Sensor plus can be placed on (or in) cartons of various sizes. This is especially attractive to the food, pharmaceuticals, beverage and films industries.

More Cost-Effective

The TT Sensor Plus is designed to replace more costly, bulky device style, data loggers.

In addition, many of today's data loggers have a cumbersome return process. Loggers are often lost or not returned which comes at great expense to the customer. The TT Sensor Plus is designed for a one-time use and is disposable.

More Sustainable

TT Sensor Plus can provide useful time-temperature information to correct excursions in the shipment, allowing customers to reduce waste and shrinkage resulting in sustainability benefits.

Features and Benefits

> Low cost and accurate time-temperature data logger
> Small credit card-sized label with easy set up
> Mobile app programmable logging and wireless data transfer; There is no cost to download the mobile app from the Google Play app store
> Provides data to help improve shipment quality, inventory and logistics
> Lower shrinkages and greater sustainability

Applications

> Pharmaceutical and medical
> Food and beverage
> Chemicals and polymers
> Other temperature-sensitive goods

Key Features

Key features of the TT Sensor Plus smart labeling system include:

> Operating temperature range of -20°C to +50°C
> Embedded Near Field Communication (NFC) and temperature sensor microchip
> Real-time clock for data logging
> Temperature alarm
> Temperature accuracy of ± 0.5° C at -10°C to +20°C
> Corresponding mobile app to configure, read and manage temperature data
> Temperature resolution = .01° C

Spec#	Description	MOQ	Lead Time	Ship location
0993	TT Sensor Plus, 50 pcs	2 Boxes	Please Inquire	Painesville, OH

Contact information:

Globally all non Pharmaceutical

Mary Greenwood
mary.greenwood@averydennison.com

Pharmaceutical:

North & South America

Mary Greenwood
mary.greenwood@averydennison.com

North America

Alison Schuitema
alison.schuitema@averydennison.com

Europe

Benoit Jourde
benoit.jourde@eu.averydennison.com

North Asia

Jacky Cao
jacky.cao@ap.averydennison.com

South Asia Pacific and Sub-Saharan Africa

Subham Kumar
subham.kumar@ap.averydennison.com

AVERY DENNISON | Label and Packaging Materials

North Asia
5th Floor, Hongye Park
1801 Hongmei Road,
Xuhui District 200233,
Shanghai, China
+86 21 33951888

South Asia Pacific and Sub-Saharan Africa
460 Alexandra Road,
PSA Building
#28-02/03, Singapore 119963
+65 6430 7000

Europe
Willem Einthovenstraat 11
2342 BH Oegstgeest
The Netherlands
+31 85 000 2000

Latin America
Rodovia Vinhedo-Viracopos, KM 77
CEP 13280-000
Vinhedo - SP, Brazil
+55 19 3876-7600

North America
8080 Norton Pkwy
Mentor, OH 44060
800.944.8511