



Full-service solutions for printed electronics and hybrid systems. From hardware integration to scalable cloud-based applications.

Who is HyPrint GmbH?

Founders of HyPrint GmbH, Heidelberg:
Andreas Laib, Dr. Richard Leys, Dr. Martin Gutfleisch

Smart logistik solutions (tracker, HyPrint-app, HyPrint-cloud)
with printed, electronic components.

The product: HyPrint smart label system



Use case catering/food industry

Within the catering and food industry, control and logging of temperatures is becoming increasingly important.

Temperature control must be carried out in all operating areas where perishable food is cooled or frozen. Storage temperatures must be checked daily. In operating areas where heating processes take place, the heating temperatures must also be measured at random.

The temperature ranges that are checked most frequently are -20 °C, 2 - 8 °C and 15 - 25 °C. These temperatures may not or may only for a short time be fallen below or be exceeded.

HyPrint offers the optimal solution for every customer with its smart logistics system for temperature recording.

Use case pharmaceuticals

In the field of pharmaceuticals, the control and logging of temperatures assumes central importance.

For the quality assurance of highly sensitive medical products, both in stock and in transit, temperature control must be guaranteed reliably and without interruption.

HyPrint GmbH offers the optimal solution for this with its smart logistics system for temperature recording.

The solution

The HyPrint system, consisting of:

- hyPrint label
to measure and record the temperature
- hyPrint app
to control and read out the labels
- hyPrint-cloud,
which can be used for e.g.
generating measurement
reports

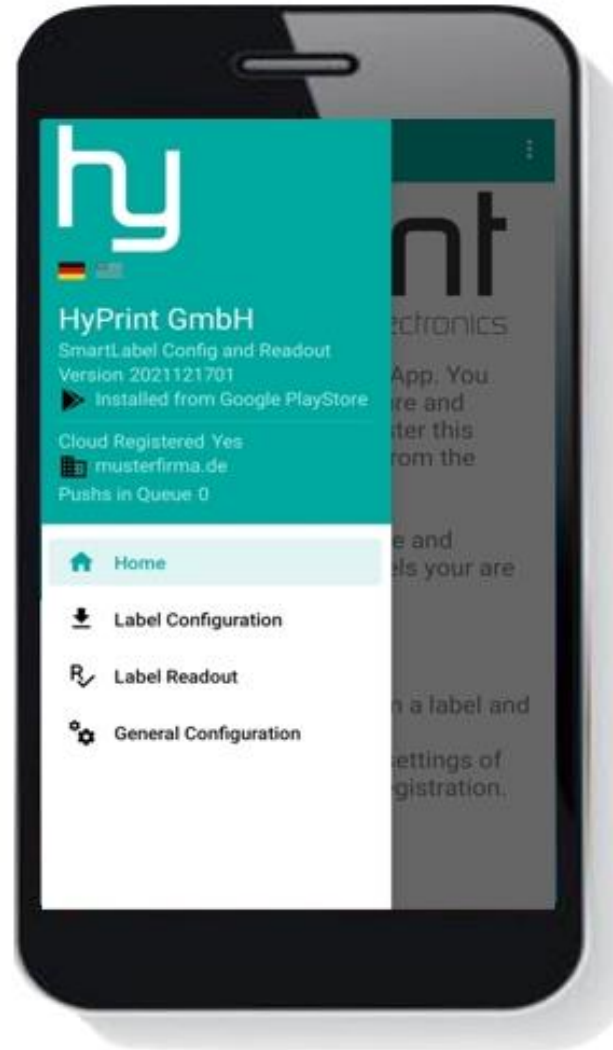


Technical data

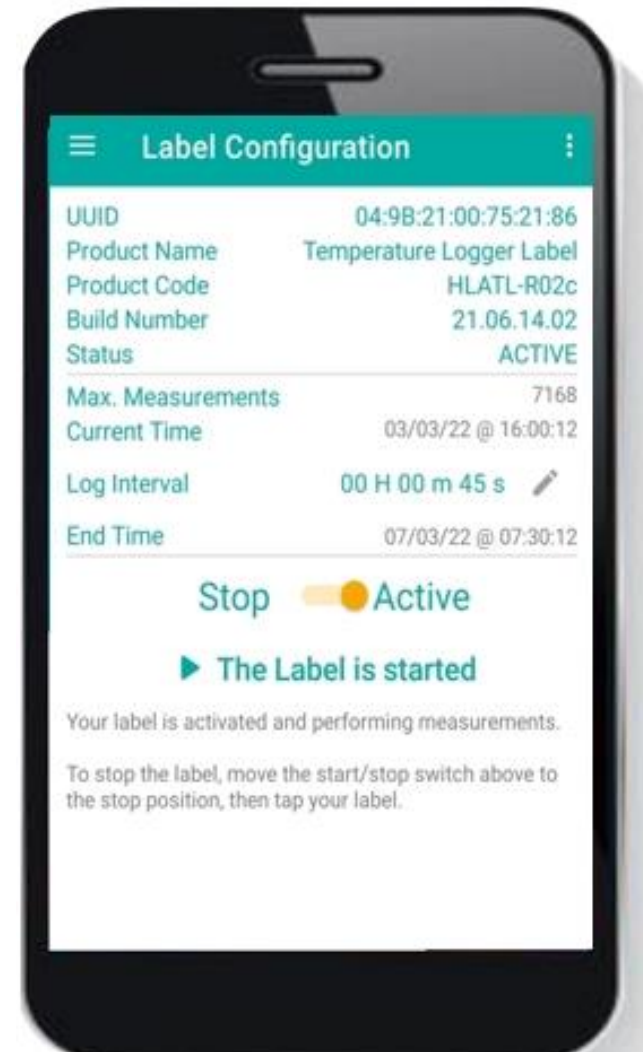
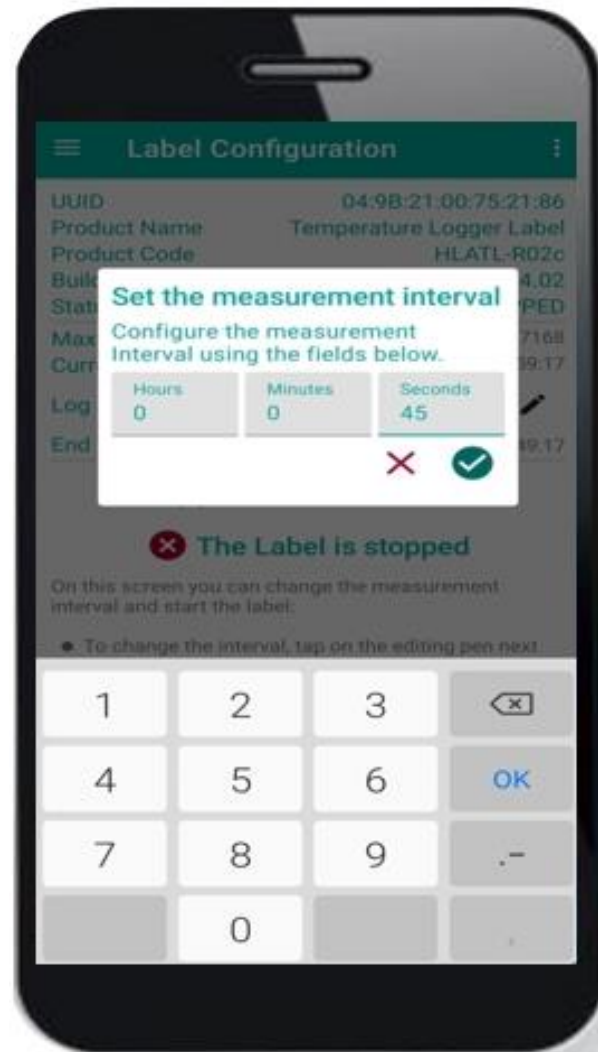
size	85x50x2 mm
memory capacity	7000 measured values
battery runtime	1 year
measuring interval	adjustable from 15 sec. to 12 hours
time measuring range	-25°C bis +70°C
temperature accuracy	$\pm 0,3^{\circ}\text{C}$ between 0°C and 40°C / $\pm 0,5^{\circ}\text{C}$ between -25°C and 70°C

Data integration into all common software systems possible.

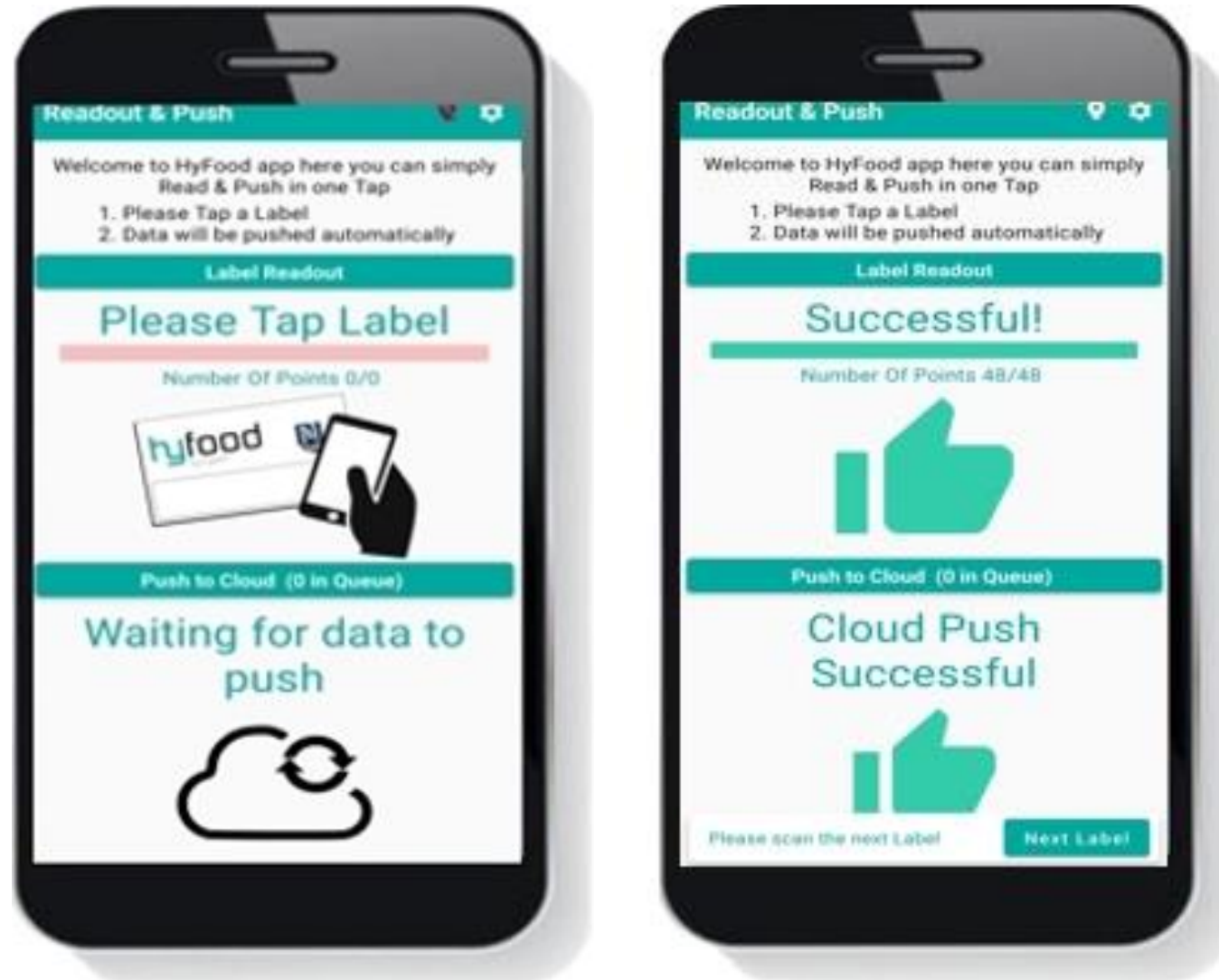
HyLabel app



HyLabel app



HyLabel app



HyPrint cloud


Hyprint Live


https://live.hyprint.de/en/


hyprint
hybrid electronics

Thu Mar 03 2022 10:55:46 GMT+0100

Welcome max.mustermann@musterfirma.de |musterfirma.de |Logout








max.mustermann@musterfirma.de

Logout

Organisation Administration



Security

User

API


API Access

Data Logging


°C

NFC Temperature Da...

Static Measurements



Sensor Selection



Time Filter

Welcome to Hyprint Cloud


Welcome to Hyprint Cloud interface for your sensor data. If you have an access to the interface, just use the login by email interface on the right or the [Login page](#).


We are using a password free login mechanism which will simply an authentication code to your email. We will add other ways of identifying in the future, which you will be able to configure in the user administration section.

You are authenticated

You have authenticated to Hyprint Live under the username displayed below. The date chip represents the expiry date of your current token, past that time you will be logged out and asked to reauthenticate.

You can use the logout button or the logout link at the top right of the page to revoke your session.

 max.mustermann@musterfirma.de

 4.3.2022, 10:59:51

Organisation Administrator

LOGOUT

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10

HyPrint cloud

Hyprint Live

[https://live.hyprint.de/en/apps/datacheck/protected/temperature](#)

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Logout

Organisation Administration

Security

User

RPI

API Access

Data Logging

NFC Temperature Da...

Static Measurements

Sensor Selection

Time Filter

Temperature logs

On this page you will be able to search through uploaded datasets:

- Use the search box to refine the search for specific labels, space grouping etc...
- Use the result table to select a data set for detailed review, report download etc...

Search for Data

Found 3 results

None

Today

Week

Month

Year

SEARCH

SEARCH RESULTS

The table displays the result of the search. You can use the search box to filter the table matching the text with any column.

Search

Push date ↓	Device	Note	Number of values	Geolocated	Actions
28.2.2022, 10:36:21	uid:hw:nfc/04:B7:B3:00:1D:00:86	Box 890	3608	Yes	
28.2.2022, 10:34:05	uid:hw:nfc/04:76:D7:00:08:09:54	Box 567	7168	Yes	
28.2.2022, 10:33:22	uid:hw:nfc/04:7F:A0:00:F8:36:2A	Box 123	7168	Yes	

Rows per page:

10

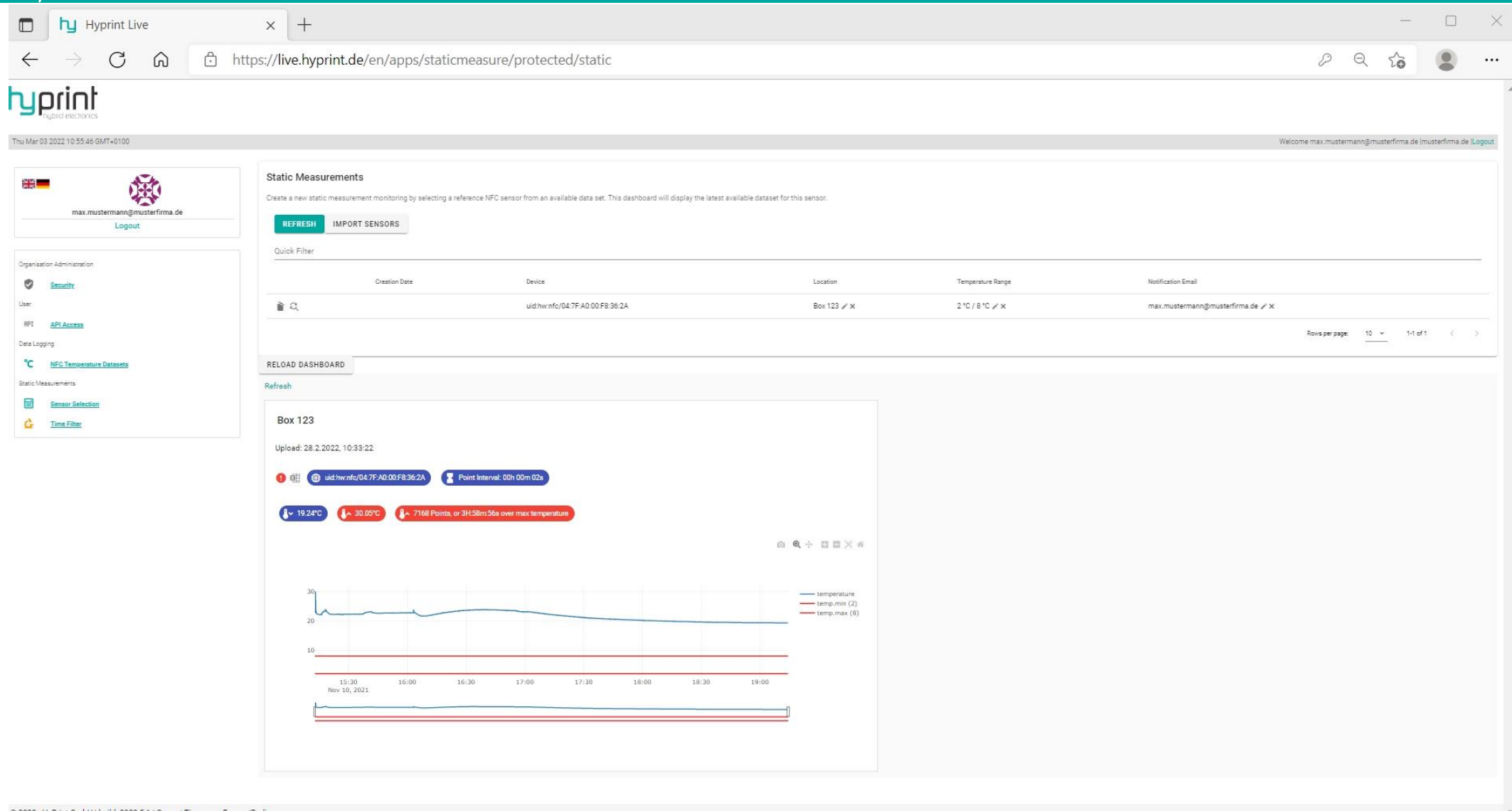
1-3 of 3

<

>

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HyPrint cloud

Hyprint Live

[←](#)
[→](#)
[↺](#)
[🏠](#)
[🔒](#)
<https://live.hyprint.de/en/apps/staticmeasure/protected/timeslice/configuration>

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[Logout](#)

Organisation Administration

[Security](#)

User

[API Access](#)

Data Logging

[NFC Temperature Datasets](#)

Static Measurements

[Sensor Selection](#)

[Time Filter](#)

You have been granted access to an early-bird page. The functionalities presented on this page are close to being released, we are happy to hear your feedback for the final touch.

Time slice Configuration

REFRESH

ADD

Name	Daily Time Selector	Time selector Timezone	Sensor Match selector	Actions
<input checked="" type="checkbox"/> Box 123	8-16	Europe/Berlin	Box 123	Go to report Page

Rows per page: 10 1-1 of 1

Box 123

Number of matching sensors: 1

Name
<input checked="" type="checkbox"/> Box 123

Rows per page: 10 1-1 of 1

Box 123 - Filtered

The following graph displays the original latest data set with the filtered graph only retaining points matching the selected hours of the day overlayed.

Quick Time Selector

8-16

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Example use case „static measurement“ at food industry

Within static measurement the label is installed in a specific place and runs in permanent use.

Beispiele:



Freezer



Refrigerated truck

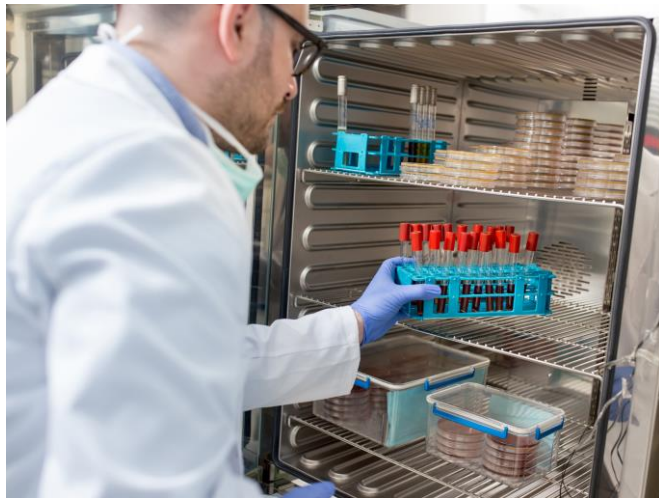


Cold storage

Example use case „static measurement“ at pharmacy

Within static measurement the label is installed in a specific place and runs in permanent use.

Beispiele:



Refrigerator



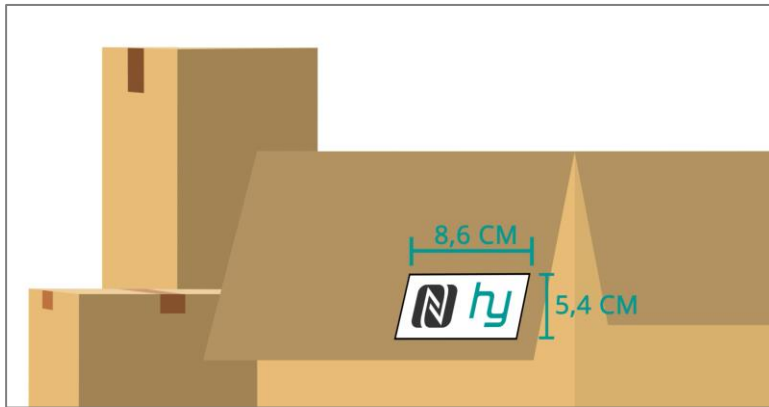
Cooler



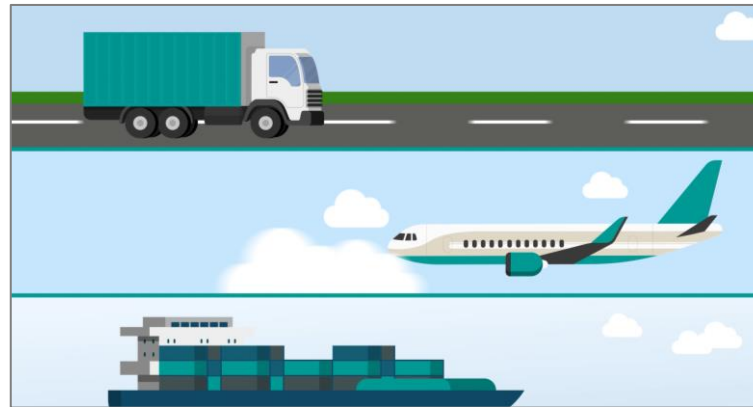
Medication storage

Use case transportlogistics

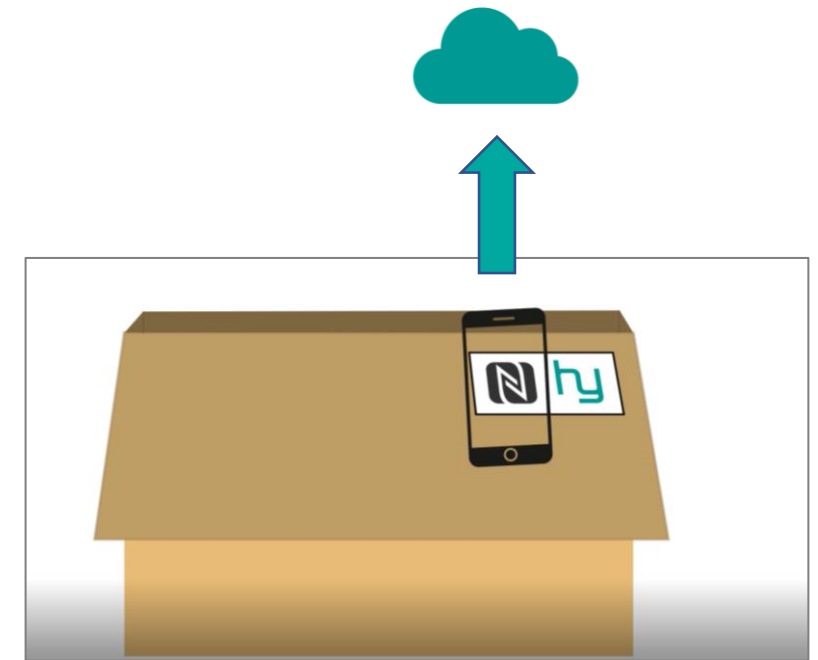
In case of measuring during transport, the label is applied directly on the package. Here the label maybe is only once in use.



shipping



transport



receiver → cloud

Benefits

Continuous recording, constant control:

The special benefit of the HyLabel system is the continuous measurement and recording of the data, which cannot be lost, even if you don't read out every day. The labels can be reused at any time.

In the HyPrint cloud, the recorded data is stored and always ready to hand. You can use the recorded temperature curves for internal evaluations. A corresponding evaluation function for the control authorities is also available.

You and your customers and partners will profit from the following benefits:

- Easy to handle
- Cost and time saving
- Fast data transfer
- Can be integrated into any system
- Already calibrated
- Data security
- No paperwork
- Process optimization
- Cloud-based



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