# NFC Temperature data loggers

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# Temperature : a key parameter for pharmaceutical products


- **Between 2 and 8°C :** 5 out of 10 of most sold products
- **Between 15 and 25°C :** 4 out of 10 of most sold products
- Yet, temperature breaches are **frequent** during transport (transit in Dubai, freezing in Moscow, customs)

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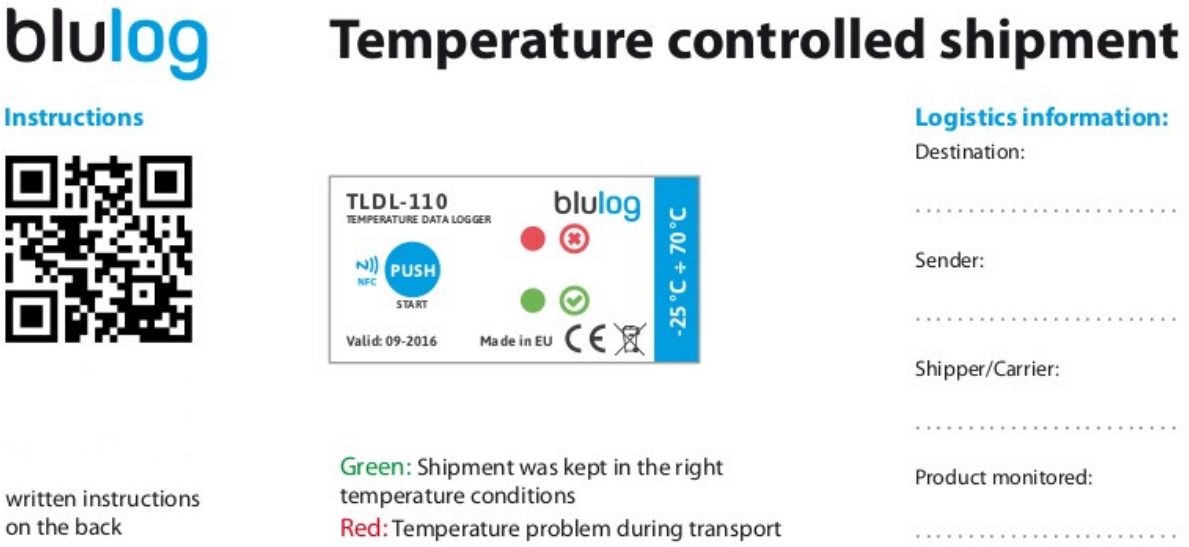
# Current solutions : either low cost and limited, or wireless but expensive


- **USB single-use dataloggers :** low cost but need to extract PDF report manually with a computer for each datalogger. Not much customization available
- **RFID / NFC single-use tags :** low cost but very limited memory (less than 1,000 measurements), average precision and limited in terms of functionalities
- **Wireless systems :** real-time alerts, automatic upload to cloud, but expensive, cumbersome and need for hubs / repeaters

# Blulog NFC data loggers : Credit-card size, very precise and affordable




- **Fully calibrated** with ± 0.3°C precision and real-time calibrated clock
- Single-use or reusable, prices starting at **€8** and fully **waterproof**
- Large memory of up to **48,000** measurement capacity + logistics data
- **Geolocalization** at each scan and **automatic upload to cloud**
- **Alert diodes** in case of temperature excursions

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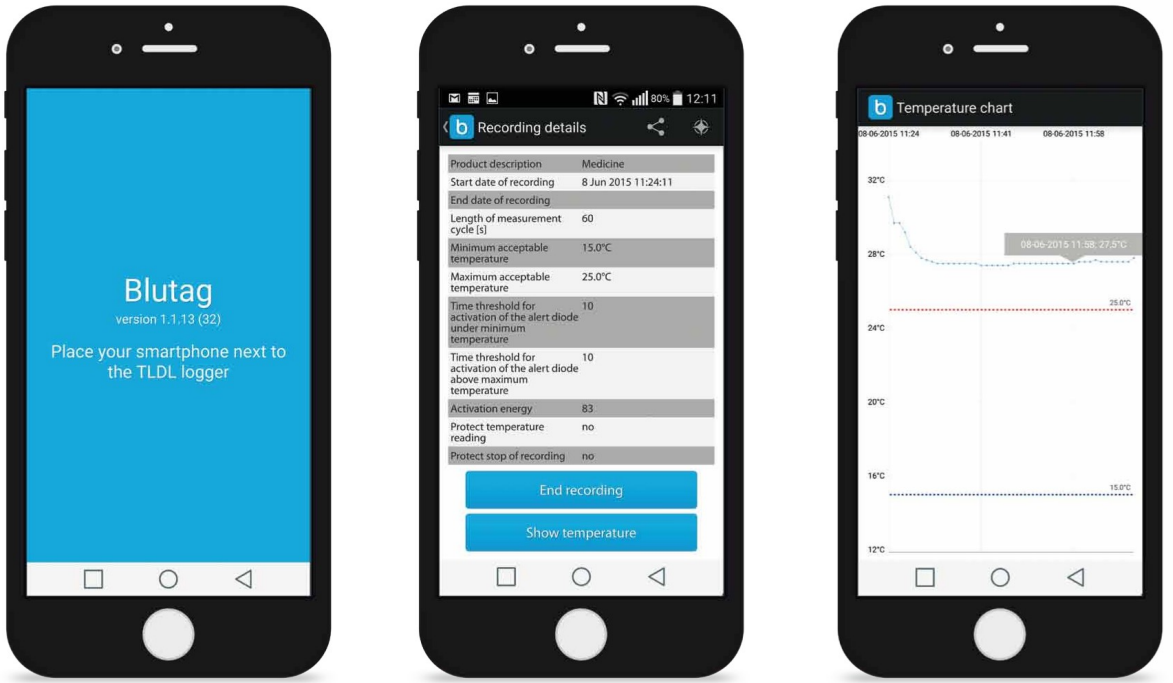
# Monitor directly from your smartphone




- **Preprogram** your data logger (we can do it for you) and **manually start** recording using the « Start » button
- Add any kind of **logistics information** like tracking number, product name, etc
- Access temperature data and graph from your **smartphone** or **NFC reader**
- Share the full temperature report via email, dropbox, or **upload data to cloud**

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# Background about company blulog


- French-Polish fast-growing company based in Poznan
- Founded in 2014 following **10 years of R&D** on a revolutionary M2M technology
- Strong engineering team with more than **30 years of experience**

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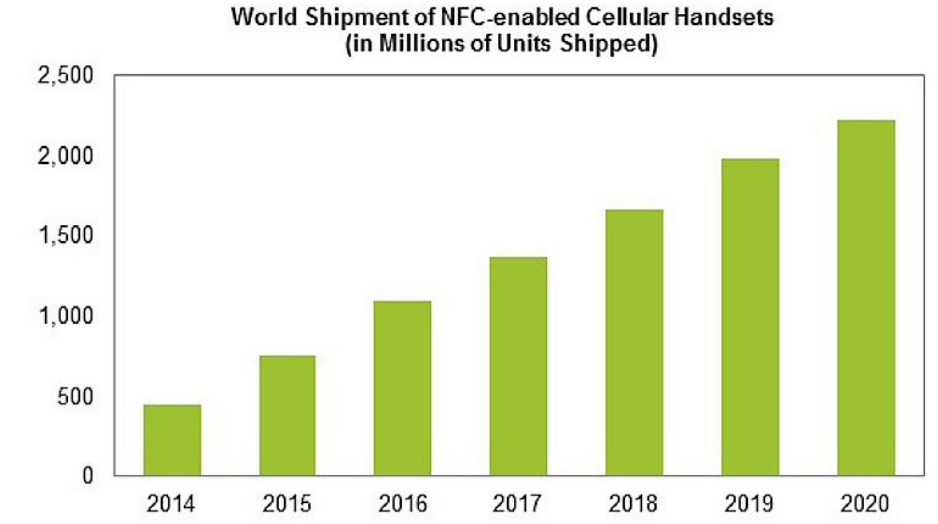
# Background about NFC technology


Source: IHS Inc., June 2015

- Created in the late 90s and established as a **standard** in 2003
- Used for mobile payment (Apple Pay, Android Pay)
- Technology now present in **most recent smartphones**
- **Fast data transmissio**n, 4cm range and **high security**

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# Technical data sheet

| | |
|---|---|
| Temperature scale | °C (°F optional) |
| Temperature range | -30°C to +70°C (-22°F to +158°F) |
| Measurement interval | From 10 sec to 2 hours |
| Memory capacity | From 5,000 to 48,000 measurements |
| Autonomy of battery | From 36 days to 1 year |
| Resolution | 0.1°C (0.2°F) |
| Accuracy between 0 and 30°C | ± 0.2°C (0.4°F) |
| Accuracy on the rest of the range | ± 0.4°C (0.8°F) |
| Dimensions | 80 x 50 x 2.5 mm (3.15” x 2.0” x 0.09”) |
| Weight | 10g (0.35 oz.) |
| Protection class | IP 67 |
| Time | UTC |
| Equipment needed | NFC / Android |
| Shelf life | 1 year |
| Data reading period post end of rec | 2 years |

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