

Temperature Data Logger NFC-T-85d

The NFC temperature data logger NST-T-85d is a sensor transponder to be used intuitively in multi-purpose applications. It records the environmental temperature, stores this value and provides the collected data on a NFC interface.

Collected data is transmitted wirelessly via the NFC interface of the data logger to NFC enabled mobile devices (e.g. mobile phone, tablet). These data can be distributed worldwide by using the already existing infrastructure of mobile phone networks. Therefore a dedicated reader is not necessary anymore.

The small form factor and the low weight in combination with a wide temperature range and high measurement precision predestinate the application of the temperature sensor transponder to monitor assets of one-way transports. The state of a transported good can be documented without interception over the whole distance between sender and receiver even if the transportation medium is changed. This combination of an efficient one-way data logger and a NFC smart phone used as the reader represents an innovative, simple and inexpensive method in order to observe the delivery of goods in supply chain management.

Product features:

Communication:

- NFC interface for wireless data transmission according to ISO 15693– compatible to HF-RFID
- Transmission rate 26 kbit/s
- Connection setup < 0.1 s
- Read range up to 5 cm depending on terminal

Temperature sensor:

- Range: -30 °C up to 70 °C
- Resolution: 0.1 °C
- Precision: ± 0.5 °C (-30 °C up to 70 °C)

System:

- Non-volatile memory for recording up to 4092 measurement values
- User configurable measurement properties:
 - Start delay: 0 to 240 minutes
 - Interval: 30 seconds up to 30 minutes
- Dimensions: 78 mm × 54 mm × 5 mm
- Protection class: IP67
- Weight: 10 g
- Android OS application software (from Version 2.3.3)
- Data export to CSV or PDF file
- Suited for foodstuffs (packaging material LDPE)

