

**TELID®** product line combines wireless identification with sensor applications.

The scope of this document is to describe a system solution featuring semi-passive **TELID®300 sensor data logger** with HF wireless frontend, memory, sensor and battery, **iID®** contactless RFID interfaces and **TELID®** soft for monitoring of logistic, medical or industrial processes.

# TELID®

*smart **sensor** data logging*

## Identify • Measure • Evaluate

# ... for all kinds of monitoring



**TELID®3x1** with rugged design for supervision of medical processes and industrial environment.



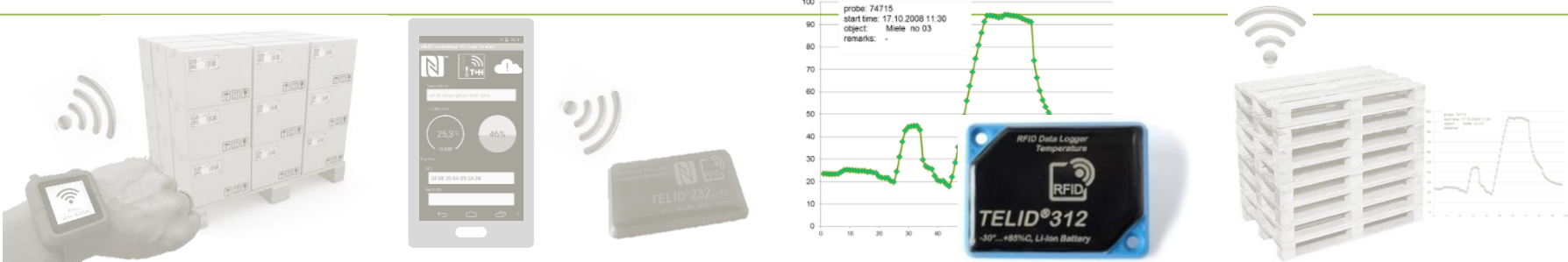
**TELID®3x2** logger for process control in half rugged environment.



**TELID®3x2.nfc** smart sensor data logger for monitoring of logistic processes and mobile data handling.



# Classification TELID devices

	RFID transponders	Passive TELID®200 and TELID®400 RFID Sensor TAGs	Semi-Passive TELID®300 RFID Data Logger	Active TELID®700 Sensor Transponder
Function	Identification, Data storage	Identification, Data storage, sensing	Identification, Data storage, sensor monitoring	Identification, sensing
Technology	HF, UHF	HF, UHF	HF	BLE, LoRa, 5G, ...
Operation	Battery-less	Battery-less, sensor measurement while scanning	Battery assisted, continuous or event-based measurement	Battery-support for sensor measurement and data transmission
Properties	Maintenance free	Maintenance free, short range or medium range	Long life, battery assisted measurement, short range passive data transmission	Medium lifetime, long range communication
Example				

# System Overview – Wireless sensor data loggers

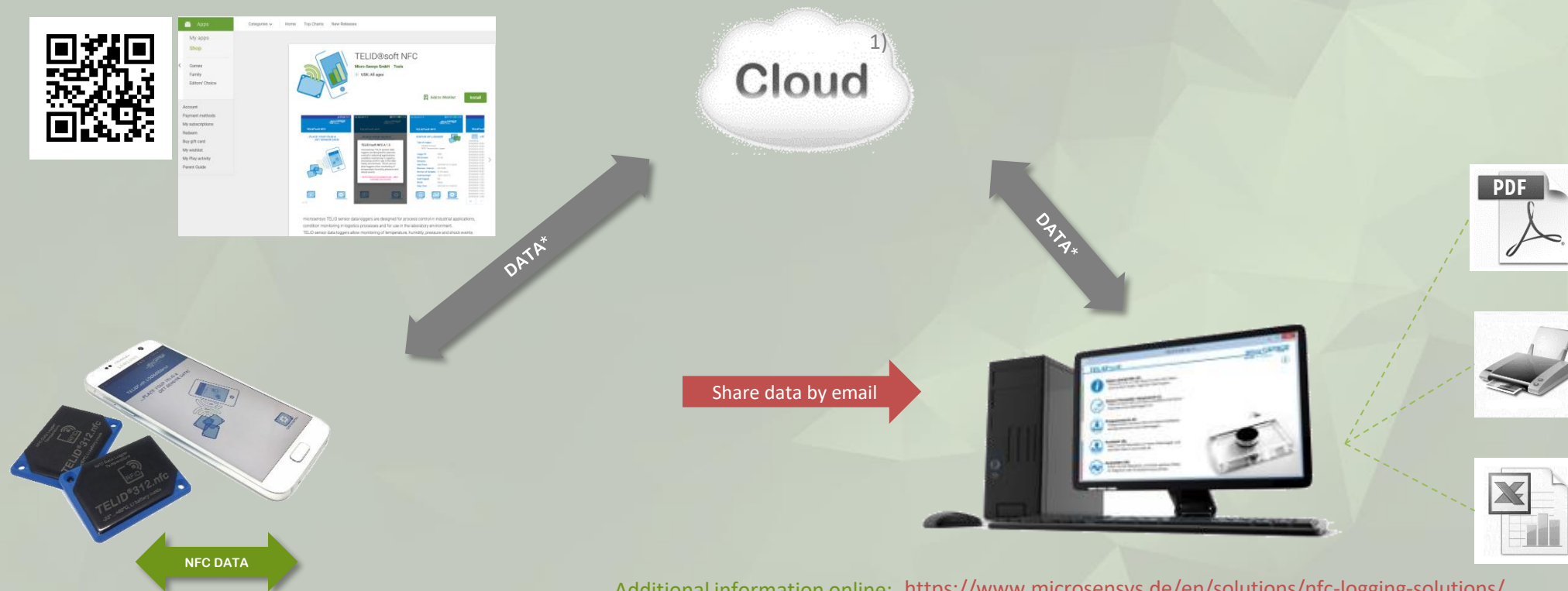
TELID®300 solution comes with different kind of data loggers, mobile and stationary iID® contactless RFID interfaces and TELID®soft for PC. All components are available in so called TELID® Bundles.



1) Cloud based data exchange on request in OEM projects  
2) TELID®library is available for Android and Windows and allows TELID® system integration into own infrastructure  
Smartphone use supported with TELID300.nfc only, TELIDsoft® NFC available for Android platform

# System Overview – NFC sensor data loggers

TELID®300.nfc solution comes with different kind of data loggers supported by both TELID®soft NFC for Android running on NFC enabled Smartphones and TELID®soft for PC.



Additional information online: <https://www.microsensys.de/en/solutions/nfc-logging-solutions/>

Sensor-Datalogger



Programming / reading by NFC Smart Phone and  
**TELID®soft NFC** or **TELID®library** 2)

Evaluation, Reporting, Printing, Archiving  
**TELID®soft for PC**

TELID®soft NFC is available in Google Play Store or via QR-code

- 1) Cloud based data exchange on request in OEM projects
- 2) TELID®library is available for Android and Windows and allows TELID® system integration into own infrastructure



# General Operation

## Your process

### INITIALIZE

- Adjust sensor parameters
- Adjust **LIMIT CONTROL**

### PROGRAM

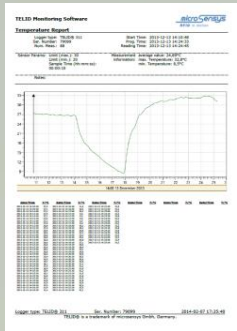
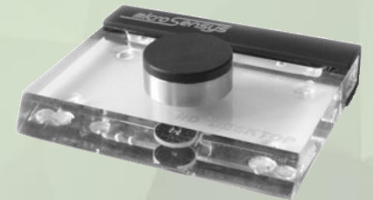
- Set monitoring parameters
- Add optional **REMARKS**
- Start logging

### CHECK

- Use unique **TELID® ID NUMBER**
- Check process quality using **LIMIT CONTROL**
- Supported by smart mobile devices

### EVALUATE

- Read entire data
- Evaluate and create graphical **REPORTS**
- Save data, export data for extended evaluation



# TELID® temperature bundles – ready to start



## TELID® bundles come in Alu etui and contain following items:

### Data logger:

2 x TELID®311 +125° steel or 2 x TELID®311 +125° peek  
or 2 x TELID®311 +125° or 2 x TELID®311.ac +134°

### iID contactless RFID interface:

1 x iID®DESKTOPsmart  
1 x QuickStartGuide iID®DESKTOPsmart

### Software:

1 x USBstick with TELIDsoft and TELID® solution documentation



## Features

- Complete solution including
  - TELID®311 sensor dataloggers, additional TELID®311, TELID®3x2 or TELID®3x2.nfc sensors can be purchased
  - USB RFID interface iID® DESKTOPsmart
  - PC software supporting all TELID®311, TELID®3x2 or TELID®3x2.nfc sensors for programming, evaluation and reporting
- RFID sensor data loggers with a temperature range from -30°C to +135°C, for harsh environment conditions and encapsulated for using in fluid
- Robust Alu Etui for transport and storage of RFID system components

# Our Packages

## TELID®300 Bundles - subject to change

### Outstanding Features

- Extraordinary designed RFID reader with USB interface
- RFID sensor data loggers with a temperature range from -30°C to +140°C
- Data loggers for harsh environment conditions and encapsulated for using in fluid
- Software for programing and reading data loggers as well as evaluation and management of datasets
- Robust Alu Etui for transport and storage the RFID system components



\*on inquiry











\*on inquiry

### Available products:












- TELID®311 -125°C
- TELID®311.ac
- TELID®314.ac
- TELID®312
- TELID®3x2.nfc //welches?
- iID®DESKTOPsmart with preinstalled TELID®software licence
- iID®POCKETwork with preinstalled software
- USB storage with TELIDsoft and TELID®3T Documentation, QuickStartGuide iID®DESKTOPsmart
- 1x Alu Etui storage box



# Ordering information – TELID®311, 314, 343

TELID® Type	Picture	Product code	Technicals	Remarks
311 		<b>14.311.484.06</b>	<p>dimensions: D27mm, thickness 12mm</p> <p>environmental condition: working temp. -30...+100°C</p> <p>samples: up to 8000</p> <p>sample time: 10s ... 256min</p>	
311.ac 		<b>14.311.489.00</b>	<p>dimensions: D27mm, thickness 12mm</p> <p>environmental condition: working temp. up to +140°C</p> <p>absolute pressure up to 5bar</p> <p>samples: up to 8000</p> <p>sample time: 1s ... 59min</p>	
314.ac 		<b>14.311.499.01</b> <b>14.311.499.05</b> <b>14.311.499.07</b>	<p>dimensions: D27mm, thickness 12mm</p> <p>external sensor: pin length 15, 50 and 100mm</p> <p>environmental condition: working temp. up to +140°C</p> <p>absolute pressure up to 5bar</p> <p>samples: up to 8000</p> <p>sample time: 1s ... 59min</p>	
343.HTK 		<b>14.343.439.103</b>	<p>dimensions: G¼" fitting, SW22, max length 48mm</p> <p>pressure range: 0 Bar .. 3Bar / 100Bar</p> <p>environmental condition: working temp. up to +100°C</p> <p>samples: up to 8000</p> <p>sample time: 1min ... 59min</p>	1/4" fitting, D30M

# Ordering information – TELID®3x2

TELID® Type	Picture	Product code	Technicals	Remarks
312 		14.312.100.00	<p>dimensions: 54 x 40mm<sup>2</sup>, thickness 4.5mm</p> <p>environmental condition: working temp. up to +80°C</p> <p>sample time: 10s ... 256min</p> <p>samples: 8000</p>	Wireless update
382.3D LT 		14.382.709.00	<p>dimensions: 54 x 40mm<sup>2</sup>, thickness 4.5mm</p> <p>environmental condition: working temp. up to +80°C</p> <p>Shock Range: -8g...+8g</p> <p>Memory: 256 kbit</p>	Event data logger, Wireless update
382.3D TT 		14.382.719.00	<p>dimensions: 54 x 40mm<sup>2</sup>, thickness 4.5mm</p> <p>environmental condition: working temp. up to +80°C</p> <p>Shock Range: -8g...+8g</p> <p>Memory: 256 kbit</p>	continuous data logging, Wireless update
332  		14.332.709.00	<p>dimensions: 54 x 40mm<sup>2</sup>, thickness 4.5mm</p> <p>environmental condition: working temp. up to +60°C</p> <p>sample time: 10s ... 18h</p> <p>samples: approx. 6000</p>	Wireless update
354.02 		14.354.709.00	<p>environmental condition: working temp. up to +60°C</p> <p>sample time: 10s ... 18h</p> <p>samples: approx. 6000</p>	Material (soil) moisture logger

# Ordering information – TELID®3x2.nfc

TELID® Type	Picture	Product code	Technicals	Remarks
312.nfc 		<b>14.312.714.00</b>	dimensions: 54 x 40mm <sup>2</sup> , thickness 4.5mm environmental condition: working temp. up to +60°C sample time: 10s ... 18h samples: approx. 8000	NFC interface
332.nfc 		<b>14.332.714.00</b>	dimensions: 54 x 40mm <sup>2</sup> , thickness 4.5mm environmental condition: working temp. up to +60°C sample time: 10s ... 18h samples: approx. 6000	NFC interface
392.nfc 		<b>14.392.714.10</b>	dimensions: 54 x 40mm <sup>2</sup> , thickness 4.5mm environmental condition: working temp. up to +60°C sample time: 10s ... 18h samples: approx. 4000	NFC interface, multi sensor logger
392.nfc 		<b>14.392.714.01*</b>	dimensions: 54 x 40mm <sup>2</sup> , thickness 4.5mm environmental condition: working temp. up to +60°C sample time: 10s ... 18h samples: approx. 4000	NFC interface, multi sensor logger *In development
315.mini+ 		<b>14.315.204.00</b> <b>14.315.504.00</b>	dimensions: 10 x 7 x 4.5 mm environmental condition: working temp. up to +60°C sample time: 10s ... 18h samples: approx. 8000 dimensions: D 10 mm, TH 3 mm	chargeable by RFID

Contact



Questions?

**Please contact [info@microsensys.de](mailto:info@microsensys.de)**

*microsensys* GmbH  
In der Hochstedter Ecke 2  
D 99098 Erfurt  
Germany

<b>TEL</b>	+49 361 59874 0
<b>FAX</b>	+49 361 59874 17
<b>EMAIL</b>	<a href="mailto:info@microsensys.de">info@microsensys.de</a>
<b>WEB</b>	<a href="http://www.microsensys.de">www.microsensys.de</a>