

Scope of this document is description of the system solution of semi-passive **TELID®300** data loggers with HF wireless frontend, memory, sensor and battery, **iID®** contactless RFID interfaces and **TELID®** soft for monitoring of logistic, medical or industrial processes.

Identify • Measure • Evaluate

... for all kind of monitoring



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



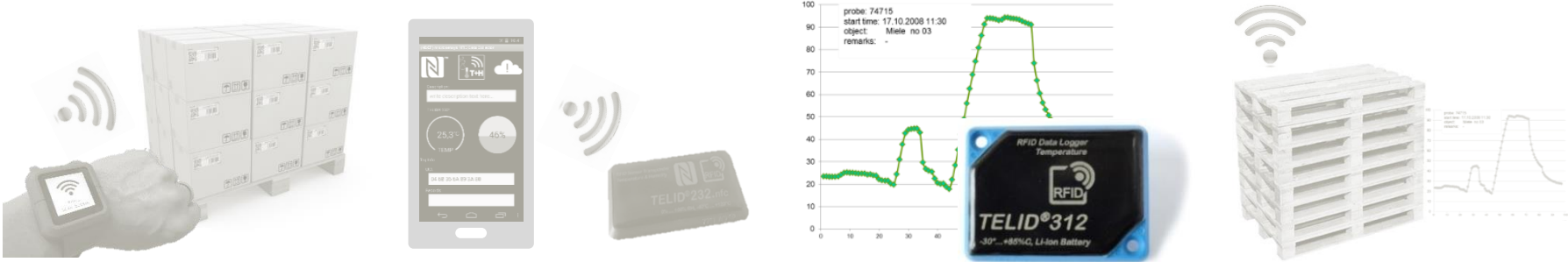
TELID®3x2 logger for process control in half rugged environment.



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

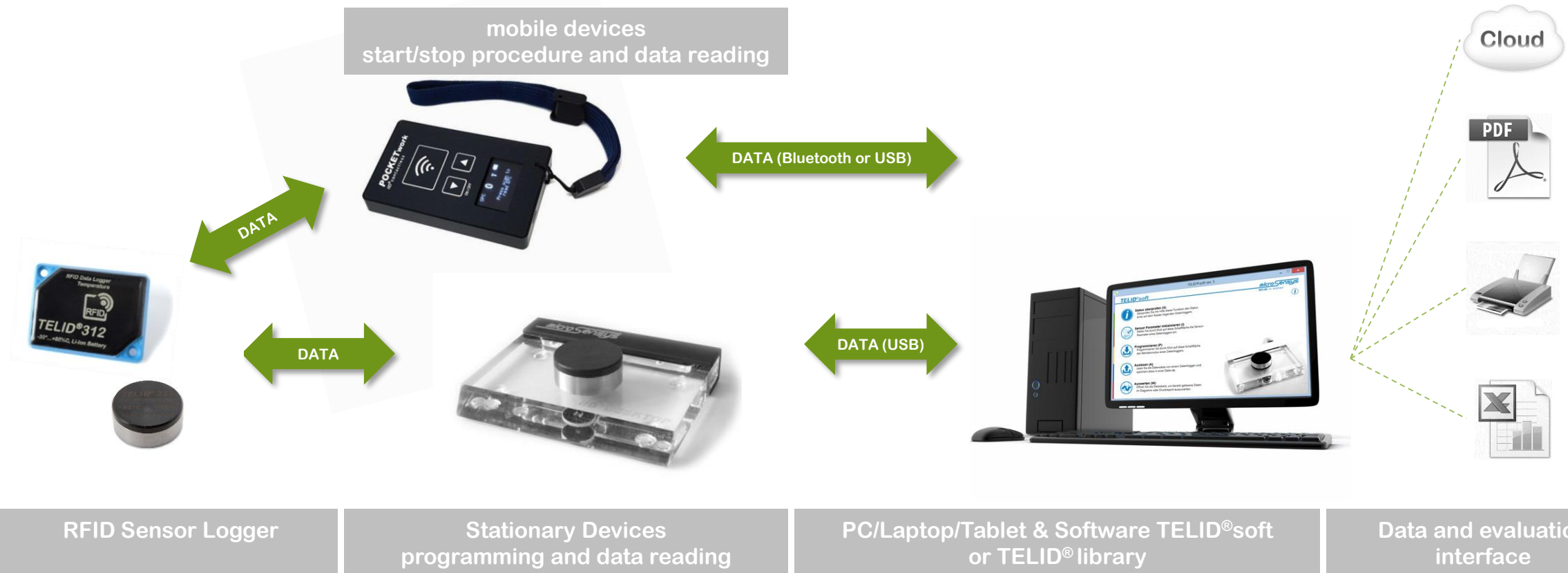


Classification

	RFID-Transponder	Passive TELID®200 and TELID®400 RFID-Sensor-TAGs	Semi-Passive TELID®300 RFID Data logger	Active components
Function	Identification, Data storage	Identification, Data storage, sensing	Identification, Data storage, sensor monitoring	Identification, sensing
Technology	HF, UHF	HF, UHF	HF, UHF	BLE, LoRa, 5G, ...
Operation	batteryless	batteryless, 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 life time, long range communication
Example				

System Overview

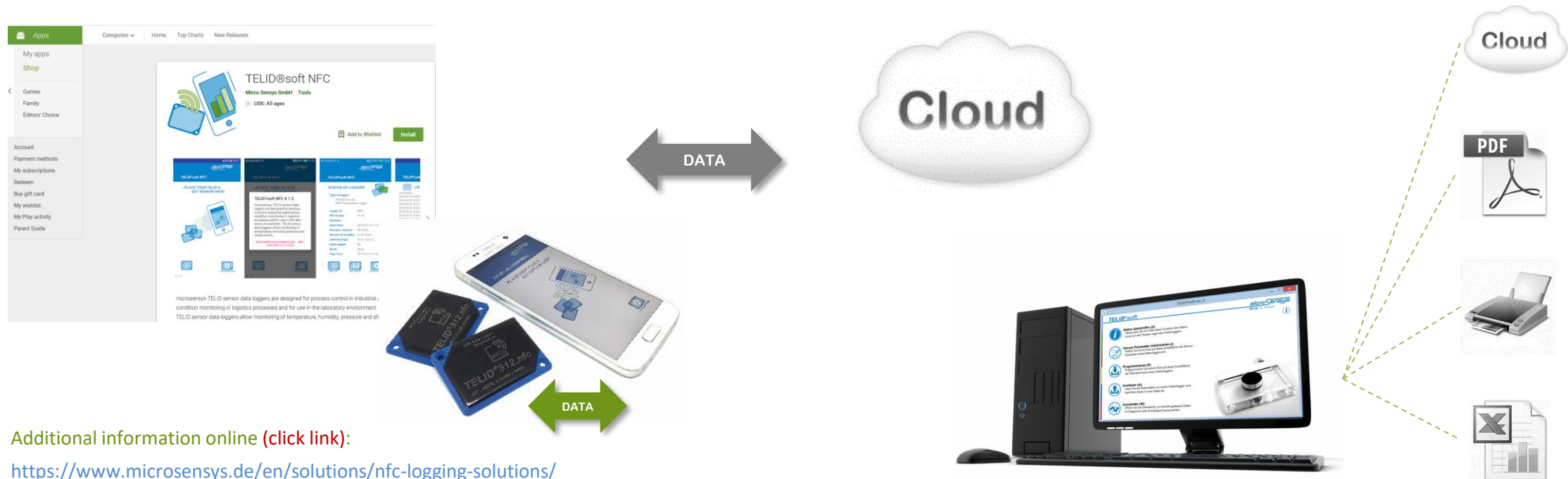
TELID® 300 solution comes with different kind of data loggers, mobile and stationary iID® contactless RFID interfaces and TELID®soft for PC or Android. All components are included in the so called TELID® bundle.



1) Smartphone use supported by with TELID300.nfc only, TELIDsoft® NFC available for Android platform

System Overview – NFC Solution (in development)

TELID® 300.nfc solution comes with different kind of data loggers and are supporting by NFC Smart Phones together with TELID®soft NFC for Android.



Additional information online (click link):

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

Smartphones are supporting TELID300.nfc only, TELIDsoft® NFC available for Android platform

Sensor-Datalogger

NFC Smart Phone and TELID®soft
programming and data reading

Data and evaluation interface

Operation



EVALUATE

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

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



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.ac +134°

iID contactless RFID interface:

1 x iID®DESKTOPsmart

1 x QuickStartGuide iID®DESKTOPsmart

Software:







1 x CD-ROM with TELIDsoft and TELID® solution Documentation (as PDF)














Features

- Complete solution including
 - TELID®311 sensor dataloggers, additional TELID®311, TELID®3x2 or TELID®3x2.nfc sensors can be purchased
 - USB RFID interface
 - 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











Ordering information – TELID®300 bundle

Bundle Type	Picture	Ordering code	Content	Remarks
Temperature Bundle V01 		TELID Temperature Bundle V01	1 x iID®DESKTOPsmart 2 x TELID®311 +125° steel 1 x TELID® Solution Documentation (als .pdf) 1 x CD-ROM with TELIDsoft 1 x Alu Etui	For process monitoring
Temperature Bundle V02 		TELID Temperature Bundle V02	1 x iID®DESKTOPsmart 2 x TELID®311 +125° peek 1 x TELID® Solution Documentation (als .pdf) 1 x CD-ROM with TELIDsoft 1 x Alu Etui	For process monitoring in rugged environment
Temperature Bundle AC 		TELID3T.ac Temperature Logger Bundle	1 x iID®DESKTOPsmart, RFID USB Reader 2 x TELID®311.ac, Temperature Data Logger 1 x TELID® Solution Documentation (.pdf) 1 x CD-ROM with TELIDsoft 1 x Alu Etui	For monitoring of high temperature washing processes

Ordering information – TELID®311, 343

TELID® Type	Picture	Product code	Technicals	Remarks
311.peek 		14.311.484.04	Temperature Range: -30°C...+125°C Accuracy: +/- 0.5 K ... +/- 2.0 K Samples: 8000	
311.steel 		14.311.484.01	Temperature Range: -30°C...+125°C Accuracy: +/- 0.5 K ... +/- 2.0 K Samples: 8000	Not for new projects
311.ac 		14.311.486.00	Temperature Range: -25°C...+135°C Accuracy: +/- 0.5 K ... +/- 2.0 K Samples: 8000	
311.ace 		14.311.499.00	External sensor Temperature Range: -25°C...+135°C Accuracy: +/- 0.5 K ... +/- 2.0 K Samples: 8000	In development, with external sensor needle
343  		14.343.439.01	Pressure Range: 0 Bar .. 3Bar / 100Bar Memory: 256 kbit	1/4" fitting, D30M

Ordering information – TELID®3x2

TELID® Type	Picture	Product code	Technicals	Remarks
312 		14.312.710.00	Temperature Range: -30°C...+65°C Memory: 256 kbit	Wireless update
322.3D 		14.322.102.00	Shock Range: -8g...+8g Memory: 256 kbit	Event data logger, Wireless update
332  		14.332.709.00	Humidity Range: 0 ... 100% RH Memory: 256 kbit	Wireless update
342  		14.342.709.00	Pressure Range: 10mBar ... 1200mBar Memory: 256 kbit	Not for new projects

Ordering information – TELID®3x2.nfc

TELID® Type	Picture	Product code	Technicals	Remarks
312.nfc 		14.312.714.00	Temperature Range: -30°C...+65°C Memory: 32 kbit	NFC interface
332.nfc  		14.332.714.00	Humidity: 0 ... 100% RH Memory: 32 kbit	NFC interface
392.nfc    		14.392.714.01	Humidity: 0 ... 100% RH, Pressure: 300hPa... 1100hPa Temperature: -40°C... 85°C Shock: -8 ... +8g Memory: 32 kbit	In development

Questions?

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