iID® contactless

wireless mobile RFID interfaces

identify • measure • collect • analyze

iID® contactless mobile devices

for each kind of application

iID®wearablel	iID® POCKETwork	iID® PENmotion	iID® PENsolid
			
wearable device with Bluetooth™ LE interface and QI charge, ON/OF button, motion and gesture sensors.	Mobile device with Bluetooth™ and USB interface, OLED display, trigger buttons and clock/memory.	EOL	Mobile device with Bluetooth™ and USB interface, LEDs and trigger buttons.

All devices support contactless identification using iID® transponders as well as sensing using TELID® sensor transponders.

Technical overview

Technical overview – general parameters

Feature	iID® POCKETwork	iID® PENsolid	iID® wearable
RF	HF, HFcc (stump) UHFcc UHF mid range	UHFcc HFcc (mic3 up to chipcard) UHF mid range (monopol)	UHFcc UHF mid range
Ruggedness	medium (IP54, 1m)	high (IP65)	high (IP65)
Interface	Bluetooth 2.0 SPP/HID, micro USB	Bluetooth 2.0 SPP/HID, micro USB	Bluetooth low energy (BLE) 4.0, QI charge
Output	OLED display, Buzzer	4 x sign lights (LED), Buzzer	4 x sign lights (LED), vibration
Trigger	Trigger key, up/down keys	Scan button, ON/OFF button	ON/OFF button, motion sensor, gesture
WakeUp	Button, RF WakeUp	Button, RF WakeUp	Button
Operation Modes	DOC, SPC, MPC	DOC, SPC	DOC, SPC
Accesoires	micro USB cable	micro USB cable	QI charge device
Additionals	hand strap	hand strap, touch screen support	watch strap, clothing holder
Price	medium high	medium high	medium high

Technical overview – electronic & platform

Feature	iID® POCKETwork	iID® PENsolid	iID® wearable
Electronic HF	.700	.700	-
Electronic UHF	T80 v2	T80 v2	T80 v2
Electronic LEGIC™	SM4500	-	-
Windows 32/64 support	● (iID® driver engine or keyboard mode)	● (iID® driver engine or keyboard mode)	-
Windows Phone/RT support	● (HID keyboard mode)	● (HID keyboard mode)	-
Android platform support	● (iID® Android package or keyboard mode)	● (iID® Android package or keyboard mode)	● iID® driver engine Android
iOS support	● (HID keyboard mode)	● (HID keyboard mode)	● iID® driver engine iOS (on request)
space line (firmware update, scripting support)	●	●	●

TAG compatibility

Feature	iID® POCKETwork HF	iID® POCKETwork LEGIC™	iID® POCKETwork UHFcc	iID® POCKETwork UHF	iID® PENsolid HF	iID® PENsolid UHF
HF - miniaturized transponders	(●) not recommended	(●) not recommended	-	-	●	-
UHF - miniaturized transponders	-	-	●	(●) not recommended	-	●
HF - ISO14443 (NFC, mifare), ISO15693	●	●	-	-	●	-
HF - TELID® iID-L	●	-	-	-	●	-
HF – LEGIC™	-	●	-	-	-	-
UHF transponders	-	-	●	●	-	●

Ordering information	iID® POCKETwork HF	iID® POCKETwork LEGIC™	iID® POCKETwork UHFcc	iID® POCKETwork UHF	iID® PENsolid HF	iID® PENsolid UHF
Product code	72.62.720.00	72.62.525.00	41.12.820.00	41.22.820.00	73.72.750.00	43.72.850.00

ilD® contactless mobile readers

Mobile RFID processes with *iID®PENsolid*

Application / features

- RFID read/write unit for mobile Data Capture
- Touch screen support for capacitive displays
- DOC or SPC mode supported
- Compact form factor
- Bluetooth™ class 2 SPP and HID interface
- USB micro interface (Data, configuration and charge)
- two programable buttons
- LED visualization of
  - *RFID communication*
  - *Bluetooth™ connectivity*
  - *Rechargeable battery state*
- Integrated buzzer
- support for Android, iOS* and Microsoft Windows/Windows Phone

*using Bluetooth HID keyboard profile

iID®PENsolid – More than just a pen

integrated Bluetooth™ HID functionality
easy connection as a wireless keyboard on any mobile device with the platforms Windows, Android or iOS

4 different LEDs show current status of the PEN:
- ***bright blue LED*** Bluetooth connection
- ***orange LED*** state of battery.
- ***red and green LEDs*** RFID status ok or fail
- ***buzzer*** additional acoustic signal.

specially completed tip allows it to be used as an **input device for touch screens**

forward RF antenna for targeted and **selective communication** with miniaturized UHF transponders (HF up from 06/2015)

integrated **RTC** and **2MB** flash memory for storing read data plus additional **E²PROM** memory for storing the configuration and execution scripts (on request)

internal battery is rechargable via the Micro-USB interface

press **SCAN button** to read transponder data

iID® PENsolid

RFID Bluetooth reader device
available as **UHF*** and **HF****version

*supporting **ISO 18000-6C and TELID®** UHF sensor transponders

*supporting **ISO14443, ISO15693 and TELID®** HF sensor transponders

communicates via a **Bluetooth** to a HOST (Smart Phone, Tablet …)

sturdy, lightweight RFID reader with protection class **IP65** and resistant plastic housing

for usage in **harsh industrial environments** with the latest **mobile devices**

Data Capture with *iID®POCKETwork v2*

Application / features

- POCKET reader for mobile Data Capture
- Stand alone (SPC) or in connection with an HOST (DOC)
- Casing Size appr. 86 x 54 x 10 mm³
- Bluetooth™ class 2 SPP and HID interface
- USB micro interface (Data, configuration, time sync and charge)
- three programable buttons
- OLED with 96 x 64 Matrix-Display
- Integrated 2 MB Flash-Memory for storage of collected data
  - *iID® MPC DATAload for PC data transfer*
- Buzzer with adjustable frequencies
- support for Android, iOS* and Microsoft Windows/Windows Phone

- Programable Menu for choosing functions like:
  - *display/store Productcode / UID of transponders*
  - *display/store temperature of TELID® sensor in °C*
  - *display/store switch open / close using TELID® sensor functionality*

*using Bluetooth HID keyboard

profile

iID® POCKETwork – for smart mobile data capture

directional RF antennae for targeted and **selective communication** with HF or UHF transponders

integrated Bluetooth™ SPP and HID functionality
easy connection as a wireless keyboard on any mobile device with the platforms Windows, Android or iOS

press **SCAN button** to read transponder/sensor data

FUNCTION buttons to navigate through menues

internal battery is rechargable via the Micro-USB interface

integrated **RTC** and **2MB** flash memory for RFID/sensor data storage plus additional **E²PROM** configuration memory

OLED display to show current device status :
- *Battery level*
- *Operation mode*
- *RFID activity*
- *Bluetooth connectivity*

and **user notification**

Integrated **BUZZER** for user notification

iID® POCKETwork

RFID Bluetooth reader device
available as **UHFcc*, UHF*** and **HF****version

*supporting **ISO 18000-6C and TELID®** UHF sensor transponders

*supporting **ISO14443, ISO15693 and TELID®** HF sensor transponders

communicates via a **Bluetooth** to a HOST (Smart Phone, Tablet …) and via **USB** to PC

sturdy, lightweight RFID data collector with protection class and resistant plastic housing

for usage in **medium harsh industrial environments** with the latest **mobile devices**

Smart logistic processes with *ilD®wearable*

Application / features

- UHF RFID read/write unit for smart Data Capture
- TELID® sensor support
- DOC or SPC mode supported
- Compact form factor
- Bluetooth™ low energy with SPP communication
- Wireless battery charge (Qi standard)
- LED visualization of
  - *RFID communication*
  - *Bluetooth™ connectivity*
  - *Rechargeable battery state*
- Integrated vibration alarm
- support for Android, WearOS, iOS and Microsoft Windows/Windows Phone

iID® wearable – scanning while wearing

4 different LEDs show device status :
- ***bright blue LED*** Bluetooth connection
- ***orange LED*** state of battery.
- ***red and green LEDs*** RFID status ok or fail
- ***Vibration alarm*** for additional feedback.

directional RF antennae for targeted and **selective communication** with UHF transponders

internal battery is rechargeable via wireless charging (Qi)

integrated Bluetooth™ low energy
easy connection on any mobile device with the platforms Windows, Android, WearOS or iOS

Wrist band (optional) for easy and secure operation

ON/OFF key

iID® wearable

RFID Bluetooth reader device
available as **UHF*** version

*supporting **ISO 18000-6C and TELID®** UHF sensor transponders

communicates via **Bluetooth Low energy** to a HOST (Smart Phone, Tablet …)

sturdy, lightweight RFID reader with protection class **IP65** and resistant plastic housing

for usage in **harsh industrial environments** with the latest **mobile devices**

iID® COLLECTit! mobile

Wireless RFID interface

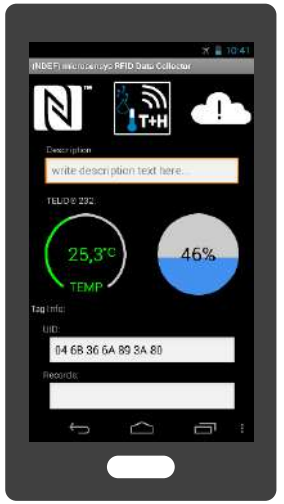
Bluetooth™ connected or integrated iID® contactless RFID reader

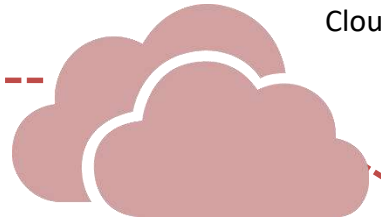
Mobile device (smartphone or tablet)

Local area network (Wifi) or WAN (GSM)

internet

iID® COLLECTit! Cloud





TAG or sensor (TELID®231 humiditytransponder) → iID® PENsolid, iID® contactless module → iID® driver engine for Windows / Android or HID interface, data transport by wide area networks → Data evaluation

iID® COLLECTit! basic

Wireless RFID interface

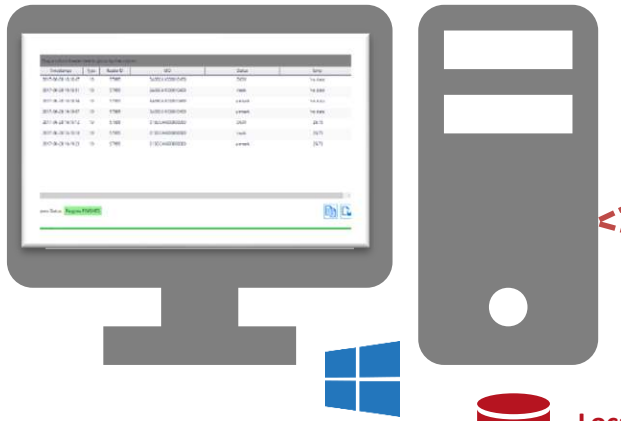
USB or Bluetooth interface to personal computer

Local data storage

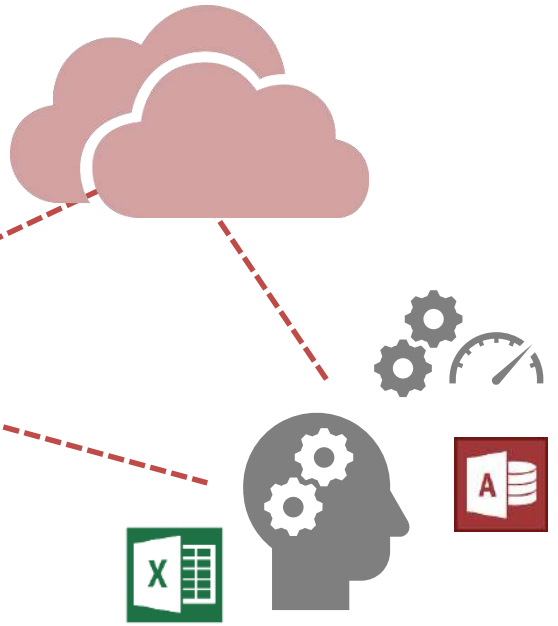
Cloud or data evaluation

iID® MPC data storage of ID, measurement data, time stamp

iID® MPC data collector / iID® MPC data converter



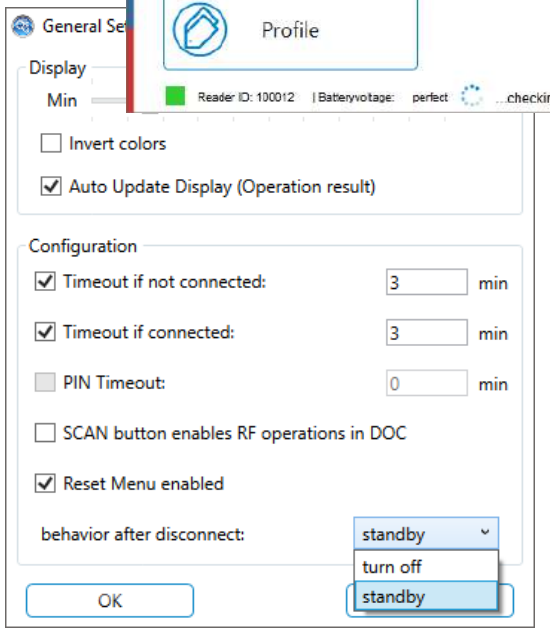
Local storage
XML data files



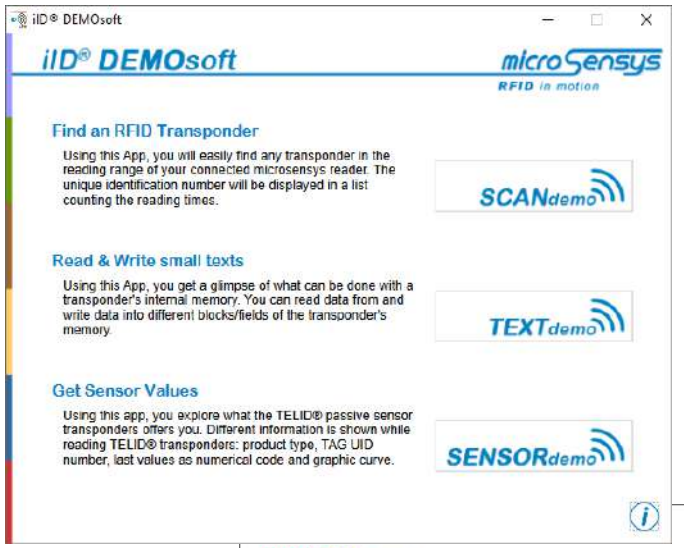
TAG or sensor (TELID®243 pressu transponder) → iID® POCKETwork → iID® MPC software for PC → Data export to CSV or XML → Data evaluation

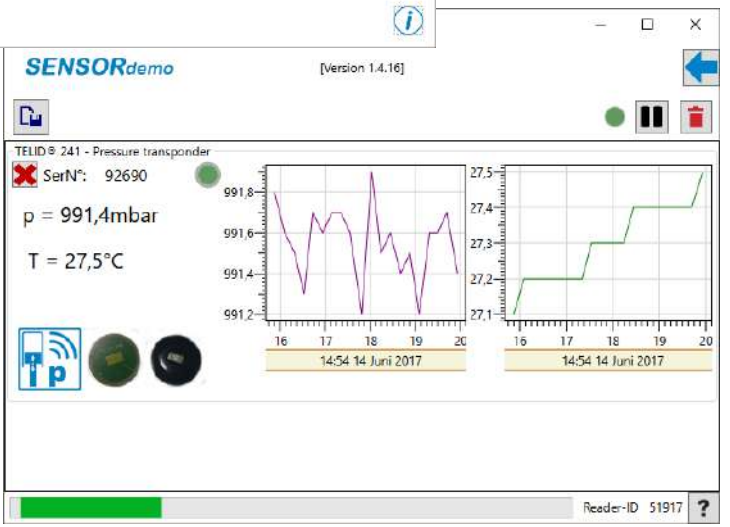
Setup

iID® software tools



For initial setup and reader configuration





For evaluation and simple transponder and sensor interaction

Reader operation modes

Mode	Target	Host communication	Remark
DOC Direct online communication	• read/write applications • full host based reader & transponder control	• bi-directional protocol based serial host communication • iID® driver engine, iID® interface protocol	• host based transponder search • limited reader trigger support
SPC Script programmed communication - SCANNER mode	• scan applications, reader based transponder control	• uni-directional serial commuication • keyboard / HID emulation	• script based trigger • LED and display control • mainly used for HID profile based scan applications
MPC Memory packet communication	• data collector applications	• iID® MPC library • iID® MPC DataLoad for data download	• script based data collection on device for later PC download • available for MPC enabled devices with RTC and non-volatile memory (iID® POCKETwork)

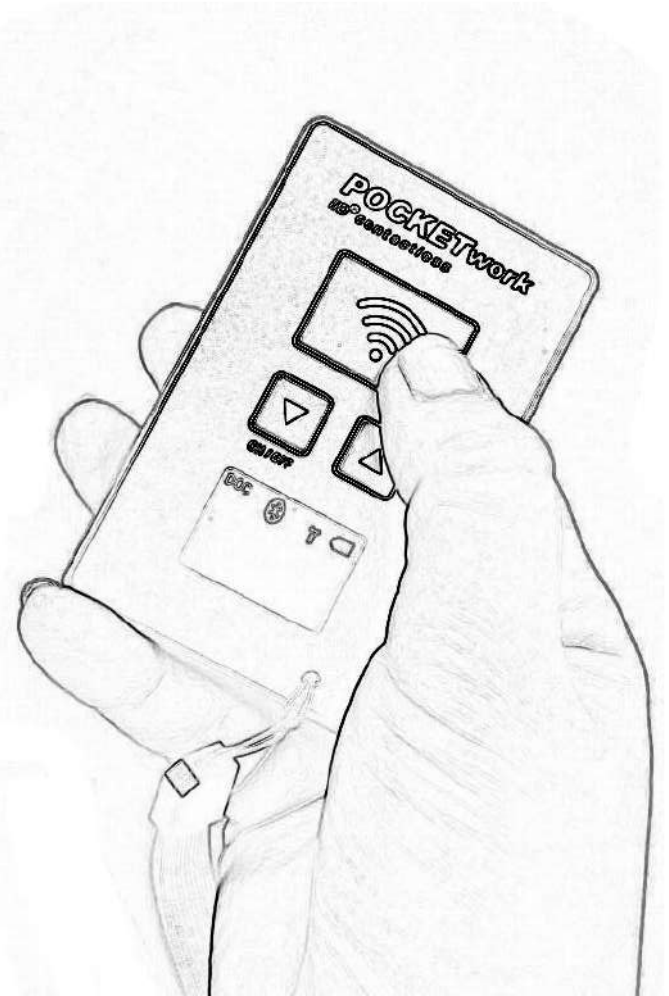
Operation –

iID® POCKETwork datacollector bundle

Introduction

iID® POCKETwork DATAcollector bundle

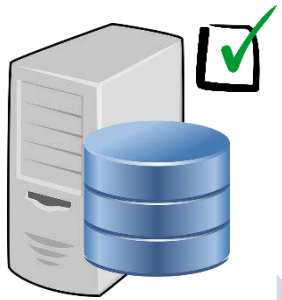
- is a system solution for mobile RFID based data capture
- may be used for
  - Mobile maintenance processes
  - Faster inventory control
  - Inspection supervision
- can be extended by additional ID & sensor transponders
- comes with MPC DATAload software for data download and export to third party software



Application

- Visit object to be collected / inspected

- Scan object transponder / measure sensor transponder



COLLECT / INSPECT

CAPTURE

SIGN

Stick transponders / sensor transponders to objects to be collected / inspected

EVALUATE

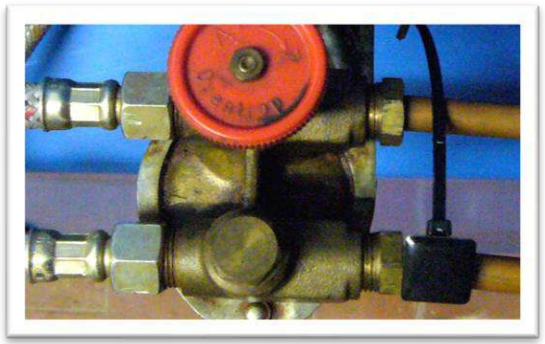
Connect device to PC, download data to PC for further evaluation

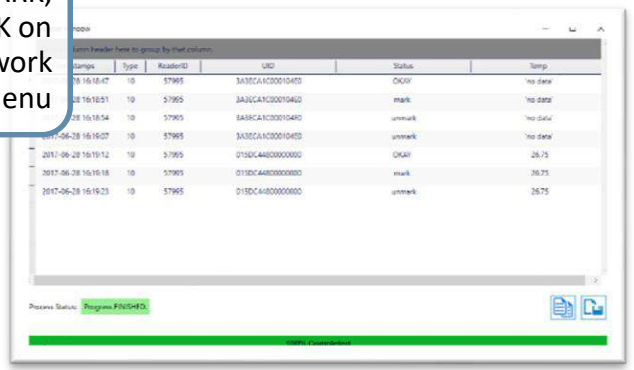
SAVE

Add status information

- Data will be sav to POCKETwork internal memory including time stamp and status information

- Select OKAY,MARK, UNKARK on POCKETwork menu





Setup

iID® POCKETwork:

- Connect device to your PC/laptop using USB cable
- install USB driver if requested (provided by Windows update)
- See device quick start guide:

http://microsensys.de/downloads/Additional%20Content/QuickStartGuides_A4/QSG-iID%20POCKETwork%20v2-001E.pdf

iID® transponder sample package:

- Stick transponders to the objects to be collected/inspected
- Note, that transponders of type “special” are to be used in metal environment

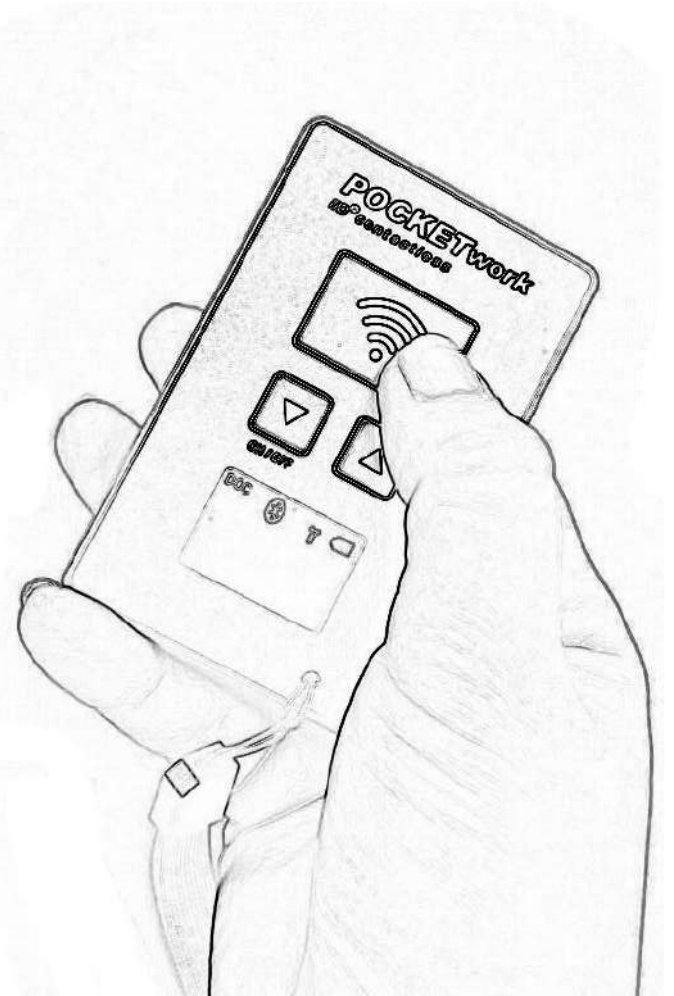
iID® MPC software:

- install iID® MPC software:

http://microsensys.de/downloads/CDContent/Install/iID%c2%ae%20POCKET/Setup%20iID%c2%ae%20MPC%20Software.msi

- See quick start guide:

http://microsensys.de/downloads/CDContent/Documents/iID%c2%ae%20SPC/Quick-iID%20MPC%2001D.pdf



Questions?

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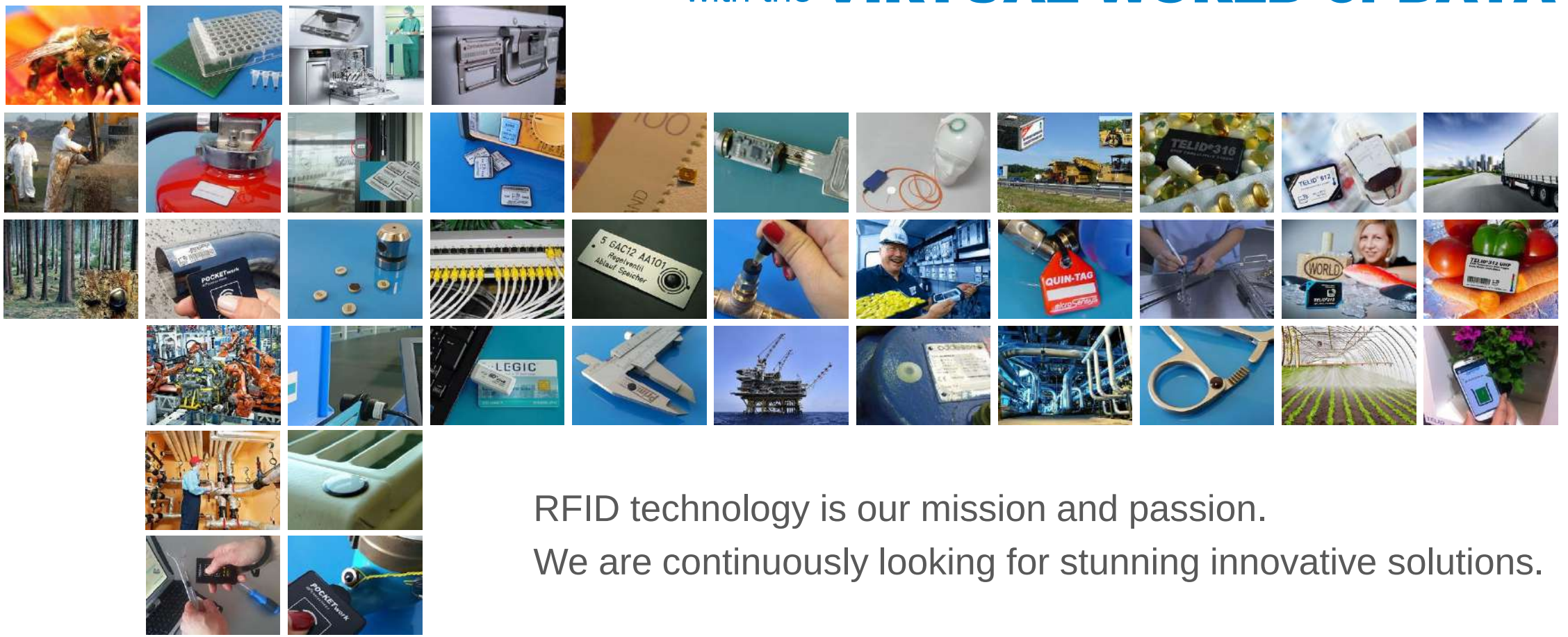
connecting the **REAL WORLD of THINGS**

with the **VIRTUAL WORLD of DATA**



RFID technology is our mission and passion.

We are continuously looking for stunning innovative solutions.