





identify • measure • collect • analyze

ilD® contactless mobile devices



for each kind of application

iID [®] wearablel		iID® POCKETwork	iID® PENmotion	iID® PENsolid	
	O SERVICE SERV	Constitution of the second of			
	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.

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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	● (ilD® driver engine or keyboard mode) • (ilD® driver engine or keyboard mode)		-
Windows Phone/RT support	● (HID keyboard mode)	● (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™	ilD [®] 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	ilD [®] POCKETwork LEGIC™	ilD [®] 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



iID® 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

ilD®PENsolid - More than just a pen





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 ilD®POCKETwork v2

Application / features

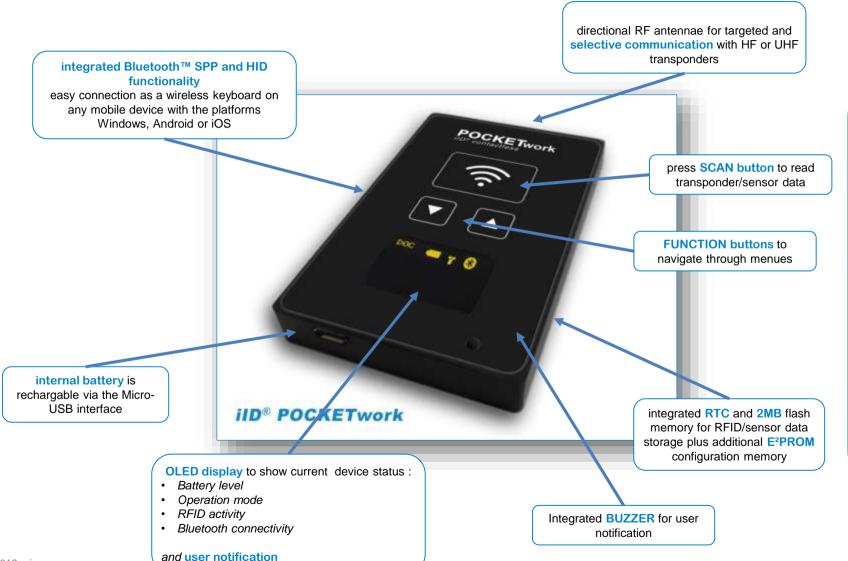
- > POCKET reader for mobile Data Capture
- > Stand alone (SPC) or in connection with an HOST (DOC)
- > Casing Size appr. 86 x 54 x 10 mm³
- > Bluetooth™ class 2 SPP and HID interface
- > USB micro interface (Data, configuration, time sync and charge)
- > three programable buttons
- > OLED with 96 x 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

ilD®POCKETwork - for smart mobile data capture





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

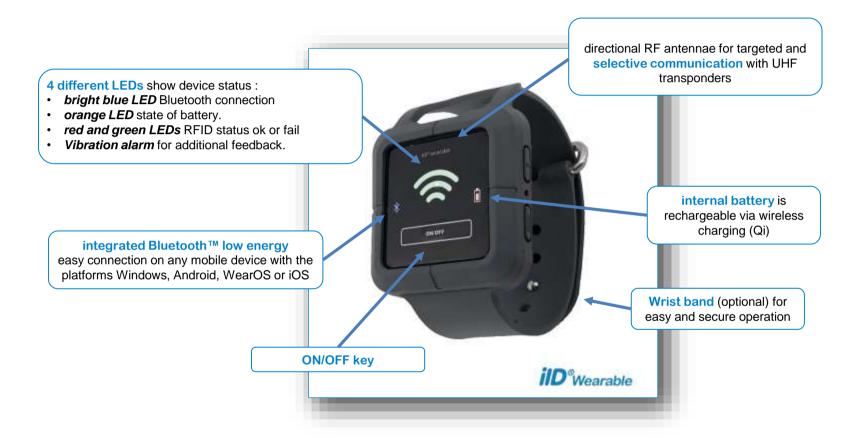
- > UHF RFID read/write unit for smart Data Capture
- > TELID® sensor support
- > DOC or SPC mode supported
- > Compact form factor
- > Bluetooth™ low energy with SPP communication
- > Wireless battery charge (Qi standard)
- > LED visualization of
 - RFID communication
 - Bluetooth™ connectivity
 - ·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





ilD®wearable - scanning while wearing





ilD® 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

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iID® COLLECTit! mobile



Wireless RFID Mobile device (smartphone or interface tablet) internet Bluetooth™ connected or Local area network (Wifi) or iID® COLLECTIt! integrated iID® contactless WAN (GSM) RFID reader Cloud 94 65 30 6A 59 3A 55

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 Cloud or RFID USB or Bluetooth interface to Local data interface personal computer data evaluation storage iID® MPC data storage iID® MPC data collector / iID® MPC data converter of ID, measurement data, time stamp X **Local storage XML** data files TAG or sensor (TELID®243 pressu iID® MPC software for PC Data export to CSV or XML iID® POCKETwork Data evaluation transponder)





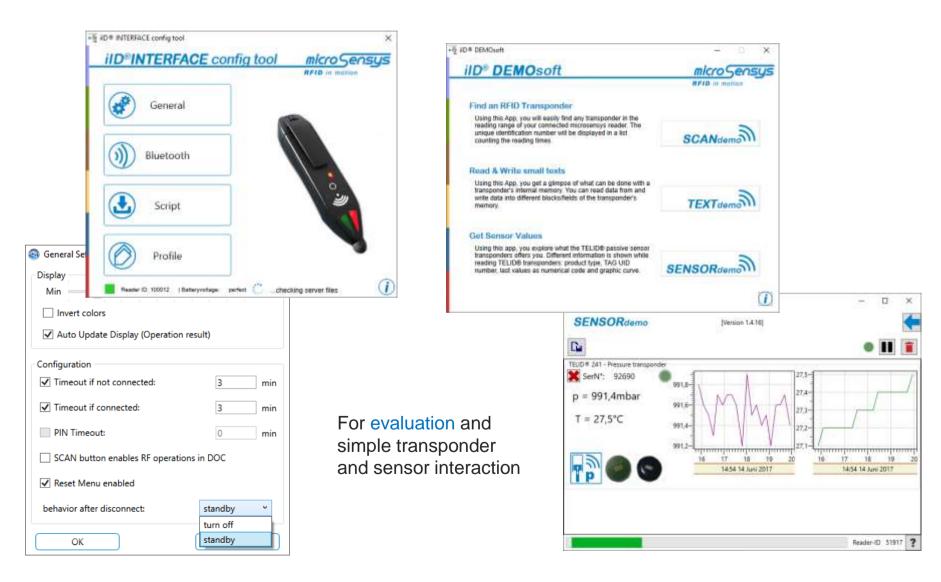


iID® software tools





For initial setup and reader configuration



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



ilD® 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



SIGN

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

Add status

information

COLLECT /

INSPECT

SAVE

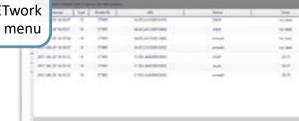
EVALU ATE

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



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

 Select OKAY,MARK, UNKARK on POCKETwork



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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

ilD® 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%20iID%c2%20iID%c2%

See quick start guide:

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





Questions?

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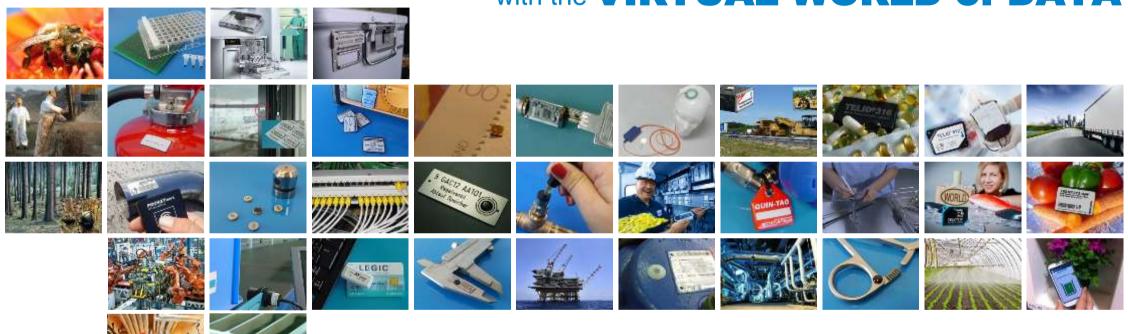
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connecting the REAL WORLD of THINGS

with the VIRTUAL WORLD of DATA



RFID technology is our mission and passion.

We are continuously looking for stunning innovative solutions.

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