



RFID Read/Write Device for mobile scan applications

iID® PENsolid PRO is a mobile RFID device suitable as Bluetooth™ enabled RFID read/write unit for UHF (868/915 MHz) frequency applications.

Based on its PEN style form and the implemented touch tip, it can be used as input device for tablets and smartphones with touch and capacitive screens. iID® PENsolid PRO can be configured in Bluetooth™ HID mode. In this operation mode it emulates a Bluetooth™ keyboard.

Depending on operation mode, iID® PENsolid PRO works together with Windows, Android and iOS devices.

Product Short Description & available Versions:

iID® PENsolid PRO UHF System: iID-4000 EU
RFID Pen Style Read/Write Unit v2.00 with Bluetooth, USB-C, Li accu
Display: LEDs for power, BT, status Buttons: ON/OFF, SCAN
RF System: iID4000 EU, ISO 18000-6c, EPC G2, all customized
Antenna: Dual antenna - P4.7U close coupling, C0315 far field
Operation Mode: DOC / SPC Bluetooth Low Energy: 4.2, SPP / HID
Dimensions: 120x26x20 mm³, Li Ion Battery 450mAh
Including: hand strap

Product Code: 43.92.850.xx

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An additional product version of iID® PENsolid PRO is available for HF (13.56 MHz) RFID applications. Please contact microsensys for further information.

Performance description

iID[®] PENsolid PRO is suitable for mobile data capture and wireless RFID read/write applications, which can be connected via its integrated USB-C interface to PCs. The Bluetooth[™]-Interface is suitable to connect to smartphones, tablet computers or laptops.

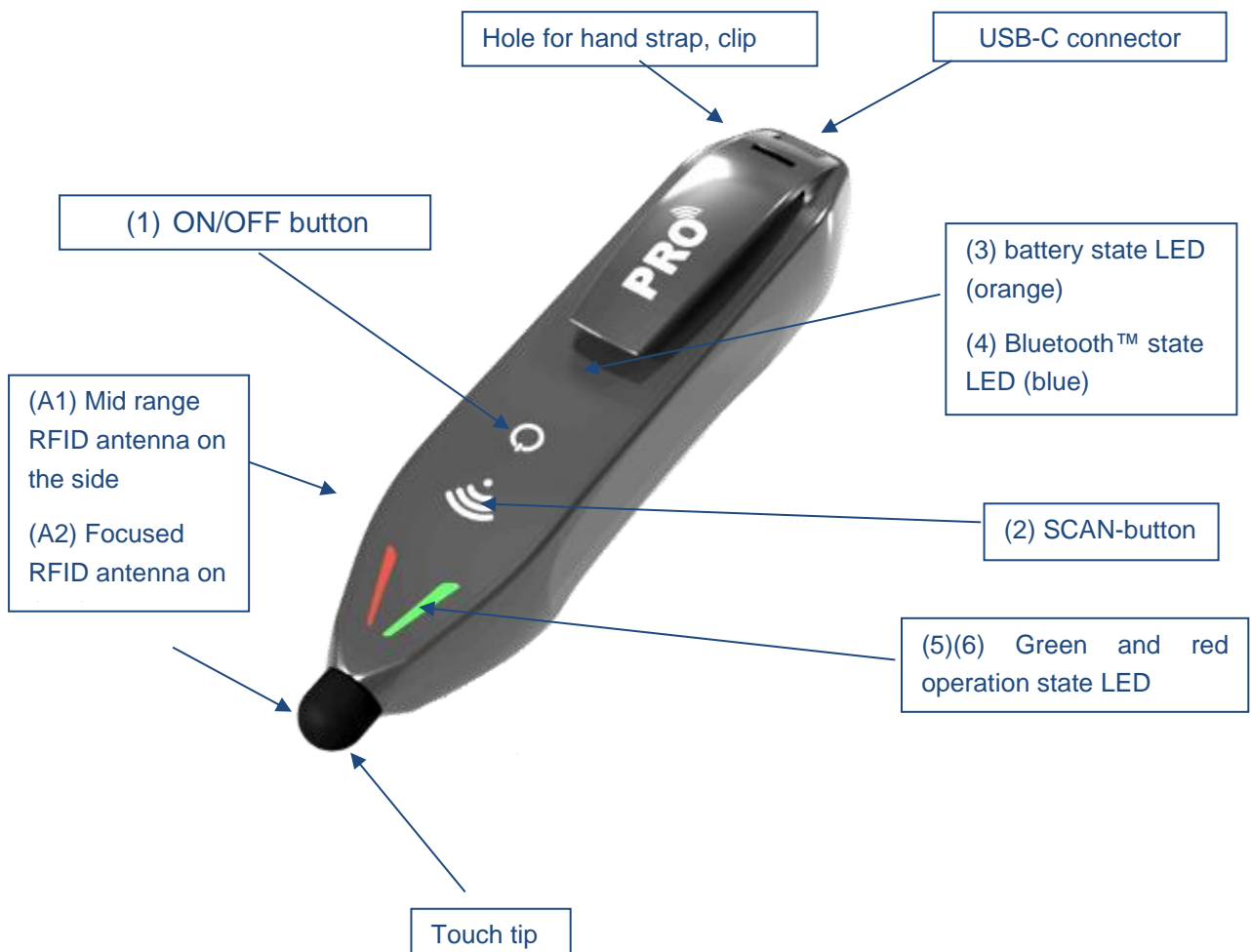
Based on iID[®] SPC functionality, scripts can be used for definition of LED, buzzer and button support as well as communication functionalities like RF, USB and Bluetooth[™].

iID[®] PENsolid PRO is a battery powered device, which can be recharged using the USB-C interface or wireless via iID[®] PENsolid PRO Charging Station. Battery cycles may vary from some hours to several days, depending on the device configuration. The mobile device can be configured using USB-C interface connected to a Windows PC.

The device is available in several versions, supporting UHF as well as HF systems suitable for closed coupling communication with very small up to large RFID transponders. Additionally, all types support TELID[®] sensor transponder applications.

First commissioning

Before you use the device for the first time, please charge the internal rechargeable battery with an USB-C cable.



Manner of functioning

iID[®] PENsolid PRO may be used as RFID read/write device with USB-C or Bluetooth[™] interface or RFID scanner using the integrated scan button. See following table for available configurations, for further information see iID[®] SPC/MPC related documents.

Functionality	Operation mode	Interface	Remark
Read/write interface	DOC	USB-C, Bluetooth [™] SPP	Bi-directional USB and Bluetooth [™] communication, based on iID [®] driver engine, device configuration
Bluetooth [™] HID (human interface device / keyboard mode)	SPC	Bluetooth [™] HID	Uni-directional communication, running script with output functionality on device

iID[®] PENsolid PRO is delivered in SPC mode incl. standard script to work with DEMOsoft for Android. Please only adjust operation mode using USB-C interface and iID[®] PENsolid PRO connect to a Windows PC. Alternative get in contact with microsensys support to store customized configurations for subsequent device deliveries.

While the iID[®] PENsolid PRO is connected via a USB-C cable, you can configure the operating mode and additional settings according to your needs via the iID[®] interface configuration tool before first use. Microsensys provides sample scripts for device usage in SPC mode, which are available for download in iID[®] interface configuration tool.

iID[®] PENsolid PRO buttons support following functionalities:

Button	Functionality
(1) ON/OFF	Power on device, power off device when pressed for 3 seconds
(2) SCAN button	Perform scan (while device in SPC mode)
(1) and (2)	Keep holding (1) and (2) while device is off until lights come up will switch on device and perform Bluetooth [™] reset.

Software to be installed

Please download and install iID[®] software package including iID[®] DEMOsoft 2020, iID[®] interface config tool and iID[®] CONNECTIONtool from: <https://bit.ly/MssInstallPackage>

Necessary software tools are:

1. iID[®] CONNECTIONtool to connect your device with a Windows PC.
2. iID[®] interface configuration tool to configure your device one time before usage.
3. iID[®] DEMOsoft 2020 to scan ID's, read and write data and use TELID[®] passive Sensors.

Depending on operation mode (see "manner of functioning") and platform installation of further software may be required:



Operation mode	Platform	Software
DOC	Windows 32&64bit	iID [®] software package https://bit.ly/MssInstallPackage
	Android	iID [®] Android DEMOsoft https://bit.ly/MssInstallDEMOsoftAndroid
	iOS	Available soon
SPC (Bluetooth™HID)	All platforms (Windows, Android, iOS)	No further software required

Further microsensys product related software and document can be downloaded here:

www.microsensys.de/downloads/

Signs & their meaning

iID[®]PENsolid PRO LEDs are used to show operation state. Additionally, there are device states shown as described below.

Symbol	Description
 (3=ORANGE)	OFF = battery good, BLINK = low charge, ON = USB charging
 (4=BLUE)	BLINK = Bluetooth™ connection not established, ON = Bluetooth™ connection established
(5) operation state LED (GREEN)	In DOC mode automatic RF state visualization, in SPC mode free programmable
(6) operation state LED (RED)	In DOC mode automatic RF state visualization, in SPC mode free programmable
(5) & (6)	Blinking while POWER_ON or POWER_OFF

Safety instructions

- The device may only be used for the intended purpose designed for by the manufacturer.
- Unauthorized changes and the use of spare parts and additional devices which have not been sold or recommended by the manufacturer may cause fire, electric shocks or injuries. Such unauthorized measures shall exclude any liability by the manufacturer.
- The liability-prescriptions of the manufacturer in the issue valid at the time of purchase are valid for the device. The manufacturer shall not be held legally responsible for inaccuracies, errors, or omissions in the manual or automatically set parameters for a device or for an incorrect application of a device.
- Repairs may only be executed by the manufacturer.
- Installation, operation, and maintenance procedures should only be carried out by qualified personnel.
- Use of the device and its installation have to comply with national legal requirements and local electrical codes.
- When working on devices the valid safety regulations must be followed.

Equipment delivered:

1 x iID®PENsolid PRO

Standard accessories:

1 x Hand strap

1 x Touch tip

Optional Accessories:

1 x USB-C Cable

1 x Power supply

1 x PENsolid PRO Charging Station

Complementary microsensys Documents

Technical Datasheets: PENsolid PRO-HF, PENsolid PRO-UHF

Product or System Documentation: UserManual PENsolid PRO UHF

Contact/Copyright

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