

iID® PENsolid PRO - UHF

Smart, ultra-mobile RFID-UHF touch & scan reader

The iID®PENsolid PRO is one of microsensys' mobile RFID devices for wireless data capture. The PENsolid PRO is based on the proven patented touch and capture technology. The device is connecting mobile computers like smart phones and tablets with all types of UHF MINI-TAGs and LABELs.

Its excellent features make the device useful for wireless data capture in field service, mobile maintenance as well as process documentation in administration, industry, and logistics.

iID®PENsolid PRO supports a wide field of different UHF transponders and sensors.

microsensys offers an attractive component platform for RFID solutions – from transponder over smart readers up to practical software tools.



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This data sheet is subject to change. Please contact microsensys for latest technical information. Picture may differ from original product. PENsolid PRO-UHF 011.DOCX

Basics:	UHF read / write unit with twin field antenna, RFID keyboard scanner
Control:	power button, scan button
Output:	power LED (orange), connect LED (blue), RF state LEDs (red/green) vibration and buzzer (all configurable)
RFID Air Interface:	RFID system iID®4000, UHF (868/915 MHz)
Standards:	based on ISO 18000-6c
Chip support:	Impinj Monza, NXP U-CODE, Alien Higgs, TELID®400 sensors
Twin Field Antenna:	close coupling (front, touch tip direction) incl. support for Mini-Tags murata MAGICSTRAP™, Hitachi IM5, microsensys mic3® far field (sideways for long distance communication)
Operating Distance:	0...10 mm / 0...2 m, depending on transponder type and environmental condition
HOST Interface:	Bluetooth™, USB-C
Wireless host interface:	Bluetooth™ 5.1, up to 20m communication range
Communication Modes:	HID, SPP profile
Connectors:	USB-C, for battery charging and device configuration
Software Interface:	iID® driver engine (Windows, Android)
Supported Commands:	see actual API documentation of microsensys iID® driver engine
Operation Modes:	
Operation Modes:	DOC or SPC, MPC on inquiry
Power Modes:	SLEEP, IDLE, ACTIVE
Power Consumption:	SLEEP typ. 3µA, IDLE typ. 20 mA, ACTIVE max. 350 mA
Special Control Features:	motion-controlled power off, temperature control
Battery:	Li-Poly rechargeable
Type:	Li-Polymer accumulator 3.7 V, 450 mAh, replacement by service
Operation Time:	up to 10h, depending on operation mode
Charging:	via USB-C cable or NFC charging*
Battery Life Time:	typ. 5 years, depending on using conditions
Device Size:	PEN style form factor, 120 mm x 24 mm x 19 (23) mm
Casing Material:	plastic, black
Environmental:	
Operating Temperature:	-20°C ... +60°C
Storage Temperature:	-25°C ... +65°C
Battery Charging:	0°C ... +45°C
Protection Class:	IP67
Emissions:	examine for EN 302 208, EU standard type

Type :	43.92.850.00	43.92.851.00	43.92.852.00*	43.92.853.00*
Downloaded OP System:	iID-4000	iID-4000	iID-4000	iID-4000
Reader Antennae:	P4.7U, CA0310	P4.7U, CA0310	P4.7U, CA0310	P4.7U, CA0310
Region:	EU (ETSI)	US,CA (FCC,IC)	JP	AU, NZ

*) in development / on request for projects