

iID® PENsolid basic - HF

Smart, ultra-mobile RFID-HF/NFC touch & scan reader

iID®PENsolid is one of microsensys's mobile RFID devices for wireless data capture. The PENsolid is based on proven and patented** touch and capture technology. The device is connecting mobile computers like smart phones and tablets with all types of HF 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 supports a wide field of different HF 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 BASIC-HF 011.DOCX

Basics:	HF scan unit (ReadOnly), HID/SPP RFID keyboard scanner
Control:	scan & power button
Output:	status LED
RFID Air Interface:	RFID system iID®3000, HF (13,56 MHz)
Standards:	based on ISO ISO15693, ISO14443 A/B
Chip support:	I-CODE®, Tag-it®, my-D®, iID®M, EM chip types
Field Direction:	iID®G, TELID®200, TELID®300, Mifare Ultralight/Classic, NXP N-TAG, mic3-TAG front, touch tip direction
Operating Distance:	0...5 cm, depending on transponder size, type and environmental conditions
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, iOS*)
Supported Commands:	see actual API documentation of microsensys iID® driver engine
Operation Modes:	
Operation Modes:	SPC (simple scan script functionality)
Power Modes:	SLEEP, IDLE, ACTIVE
Power Consumption:	SLEEP typ. 3µA, IDLE typ. 20 mA, ACTIVE max. 250 mA
Special Control Features:	temperature control
Battery:	Li-Polymer 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
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
Drop Test:	0.8m

Type :	43.92.750.50
Downloaded OP System:	iID-3000, scan unit (ReadOnly) (for full RF command set use iID® PENsolid PRO)
Region, Certification:	EU (ETSI), US,CA (FCC,IC) (pending)
Emissions:	EN 300 330, FCC Part 15