

# PRODUCT DATASHEET

iID® Read Write Interfaces

## iID® wearable UHF

### Wearable UHF-RFID & wrist scanner

iID® wearable is one of the newest innovations in *microsensys* smart mobile wireless data capture. This reader is very useable for mobile data acquisition, asset management and material handling in administration, industry and logistics. Key features:

- lightweight and smart design
- alerts by vibration, buzzer and LED visualization
- scan trigger by motion, button or host controlled
- designed for hands free use by wearing at the wrist or by badge holder accessory
- easy data transfer to mobile or stationary infrastructure by Bluetooth™ Low Energy interface

iID® wearable supports a wide range of different UHF transponder chips with optional sensor functionality.



microsensys GmbH  
In der Hochstedter Ecke 2  
D 99098 Erfurt

**microSensys**  
RFID in motion

TEL +49-361-59874 0  
E-MAIL info@microsensys.de  
FAX +49-361-59874 17  
WEB www.microsensys.de

This data sheet is subject to change.  
contact microsensys for latest information

WearableReader-UHF 001

<b>Basics:</b>	UHF RFID read / write unit
<b>Control:</b>	wearable UHF RFID scanner, MPC RFID datacollector (on inquiry) power button, motion sensor
<b>Output LEDs:</b>	power (white), RF state (red/green), connect (blue), battery state (orange)
<b>Signals:</b>	vibration, buzzer
<b>RFID Air Interface:</b>	RFID system iID®4000
<b>Standards:</b>	UHF (868/915 MHz) based on ISO 18000-6c
<b>Chip Solutions:</b>	NXP U-Code, Alien Higgs, Impinj Monza, TELID®400, TELID®500
<b>Operating Distance:</b>	0 ... 150 cm, depending on transponder type, size and environmental conditions
<b>HOST Interface:</b>	Bluetooth™ Low Energy
<b>Wireless host interface:</b>	Bluetooth™ Low Energy GATT, up to 10m communication range
<b>Communication Modes:</b>	Bluetooth™ server mode
<b>Connectors:</b>	USB (type C female), for battery charging and device configuration
<b>Software Interface :</b>	iID® driver engine (Android)
<b>Supported Commands:</b>	see actual API documentation of microsensys iID® driver engine
<b>Operation Modes:</b>	programmable
<b>Operation Modes:</b>	DOC or SPC, MPC on inquiry
<b>Power Modes:</b>	SLEEP, IDLE, ACTIVE
<b>Power Consumption:</b>	SLEEP typ. 5µA , IDLE typ. 18 mA, ACTIVE max. 350 mA
<b>Battery:</b>	Li-Ion rechargeable
<b>Type:</b>	Li-Ion accumulator 3.7 V, 250 mAh, replacement by service
<b>Operation Time:</b>	typ 10h, depending on operation mode
<b>Charging:</b>	USB-C cable, via USB connector
<b>Battery Life Time:</b>	up to 3 years, max. 700 recharge cycles
<b>Mechanical:</b>	
<b>Device Size:</b>	46 mm x 46 mm x 14 mm
<b>Weight:</b>	appr. 40g
<b>Casing Material:</b>	plastic, stainless steel bottom
<b>Temperature Range:</b>	-25°C ... +65°C
<b>Operation Temperature:</b>	-20°C ... +60°C
<b>Battery Charging Temperature:</b>	0°C ... +45°C
<b>Emissions:</b>	examine for EN 302 208
<b>Protection Class:</b>	IP54

<b>Type :</b>	<b>49.82.860.00</b>	<b>49.82.861.00*</b>	*) on request, for projects
<b>Region:</b>	EU (ETSI)	US/CA (FCC)	
<b>Downloaded OP System:</b>	iID-4000	iID-4000	
<b>Reader Antenna:</b>	MP1038U (868)	MP1038U (915)	
<b>Communication range:</b>	0...150	0..150	cm