

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.



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

WearableReader-UHF 003

Basics:	UHF RFID read / write unit	
Control:	wearable UHF RFID scanner, MPC RFID data collector (on inquiry)	power button, motion sensor
Output LEDs:	power (white), RF state (red/green), connect (blue), battery state (orange)	
Signals:		vibration, buzzer
RFID Air Interface:	RFID system iID®4000	UHF (868/915 MHz)
Standards:		based on ISO 18000-6c
Chip Solutions:		NXP U-Code, Alien Higgs, Impinj Monza, TELID®400, TELID®500
Operating Distance:	0 ... 150 cm	depending on transponder type, size and environmental conditions
HOST Interface:	Bluetooth™ Low Energy	
Wireless host interface:		Bluetooth™ Low Energy GATT, up to 10m communication range
Communication Modes:		Bluetooth™ server mode
Connectors:		USB (type C female), for battery charging and device configuration
Software Interface :		iID® driver engine (Android)
Supported Commands:		see actual API documentation of microsensys iID® driver engine
Operation Modes:	programmable	
Operation Modes:		DOC or SPC, MPC on inquiry
Power Modes:		SLEEP, IDLE, ACTIVE
Power Consumption:		SLEEP typ. 5µA , IDLE typ. 18 mA, ACTIVE max. 350 mA
Special Control Features:		moving controlled WAKE UP or SCAN command
Battery:	Li-Ion rechargeable	
Type:		Li-Ion accumulator 3.7 V, 250 mAh, replacement by service
Operation Time:		typ 10h, depending on operation mode
Charging:		USB-C cable, via USB connector
Battery Life Time:		up to 3 years, max. 700 recharge cycles
Mechanical:		
Device Size:	47 mm x 60 mm x 13 mm	integrated holder for bracelets with a width of 22 mm
Weight:		appr. 40g
Casing Material:		plastic, stainless steel bottom
Temperature Range:	-25°C ... +65°C	
Operation Temperature:		-20°C ... +60°C
Battery Charging Temperature:		0°C ... +45°C
Emissions:	examine for EN 302 208	EU standard type
Protection Class:	IP54	

Type :	49.82.860.00	49.82.861.00*	
Region:	EU (ETSI)	US/CA (FCC)	
Downloaded OP System:	iID-4000	iID-4000	
Reader Antenna:	MP1038U (868)	MP1038U (915)	
Communication range:	0...150	0..150	cm

*) on request, for projects only