**Product Datasheet**

**iID® PENsolid HF**

**Mobile HF-RFID read/write device & HID scanner**

**iID® PENsolid** is one of the newest innovations in *microsensys* RFID mobile pen concepts for wireless data capture. This reader is very suitable for mobile data acquisition, asset management and maintenance documentation in administration, industry, and logistics. It supports a wide field of different HF transponder chips and additional sensor functionality. It is designed especially as touch enabled on-device for mobile devices, tablet PCs and smart phones and as well available as UHF device.

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

### Basics:

- **HF RFID read / write unit**, RFID keyboard scanner, MPC RFID data collector (on inquiry)
- **Control**: power button, scan button
- **Output**: power LED (orange), connect LED (blue), RF state LEDs (red/green)

### RFID Air Interface:

- **RFID system**: iID®3000
- **Standards**: based on ISO ISO15693, ISO14443 A/B
- **Chip Solutions**: I-CODE®, Tag-it®, my-D®, iID®M, EM chip types
- **Operating Distance**: 0 ... 5 cm depending on device type, transponder size, type and environmental conditions

### HOST Interface:

- **Wireless host interface**: Bluetooth™
- **Communication Modes**: Bluetooth™ 2.0, profiles: HID/ SPP, up to 10m communication range
- **Connectors**: USB micro (type B), for battery charging and device configuration
- **Software Interface**: iID® driver engine (Windows, Windows Mobile, Android)
- **Supported Commands**: see actual API documentation of microsensys iID® driver engine

### Operation Modes:

- **Operation Modes**: programmable
  - **Power Modes**: DOC or SPC, MPC on inquiry
  - **Power Modes**: SLEEP, IDLE, ACTIVE
  - **SLEEP typ.**: 5μA , IDLE typ. 30 mA, ACTIVE max. 200 mA

### Battery:

- **Type**: Li-Ion rechargeable
  - **Operation Time**: Li-Ion accumulator 3.7 V, 420 mAh, replacement by service up to 10h, depending on operation mode micro USB cable, via micro USB connector up to 3 years, max. 700 recharge cycles
  - **Battery Life Time**: examine for EN 300 330

### Device Size:

- **PEN geometry**: 117 mm x 27mm x 19(23) mm

### Casing Material:

- **plastic**

### Operation Temperature:

- **-20°C ... +60°C**

### Storage Temperature:

- **-25°C ... +70°C**

### Emissions:

- examine for EN 300 330

### Protection Class:

- **IP 65**

### Type :

- **73.72.750.00**

### Downloaded OP System:

- **iID-3000**

### Reader Antenna:

- **K3**

### Communication range:

- **0...5 cm**

### Field Direction:

- **front, touch tip direction**

*) in development or delivery only for special projects