

## TELID®710.hive

### BLE Temperature Sensor and Identification Beacon

- unique identification number
- designed for temperature measurements in beehives
- Bluetooth Low Energy data communication
- lifetime up to two seasons with replaceable CR2032 Li battery

TELID®7 enhances the proven range of microsensys' TELID® family of smart wireless sensors and data loggers with a Bluetooth Low Energy communication interface. TELID®7 devices are useful for long range identification or sensing demands. The sensor can be mounted on wooden and plastic frames or the inner walls of beehives. Simple battery replacement enables a long period of usage.



TEL +49-361-59874 0 This data sheet is subject to change.  
E-MAIL info@microsensys.de Picture may differ from original product.  
WEB www.microsensys.de DS-TELID710.hive-001.docx

#### Contactless Interface:

RF Communication:  
Carrier Frequency:  
Communication Distance:

BLE TELID®7 long range identification and sensor system  
Bluetooth Low Energy 5.2  
2.4GHz ISM band (2.402 – 2.480 GHz)  
0 ... 10 m, depending on gateway and environmental conditions

#### Sensors:

Accuracy:  
Resolution:

high-accuracy digital temperature sensor  
typ.  $\pm 0.05$  °C  
0.0078 °C

#### Data Memory:

Standard Content:  
Remarks:  
Security Features<sup>1</sup>:

non-volatile memory, write endurance  $>10^5$  cycles  
unique TELID® identification number, parameter and calibration data  
programmable by TELID®7 configuration tool  
AES-128 encryption

#### Mechanical / Environmental:

Housing:  
Dimensions:  
Material:  
Protection Class:  
Mounting:  
Working Temperature:  
Storage Temperature:

Q3062P  
approx. 62 mm x 30 mm x 8.3 mm  
PA6  
IP40  
screwing  
-25 °C ... +60 °C  
-40 °C ... +85 °C, recommended 25 °C

#### Energy Source:

Battery:  
Lifetime:

replaceable  
Li primary coin cell, CR2032  
up to 2 seasons

#### Operation:

Transmission Protocol:  
Basic functions:  
Broadcast Interval:  
Broadcast Duration:  
Recommended Gateway:  
Configuration Software:  
Operating Software:  
Device Interface:

TELID®7 beacon protocol  
MEASURE, BROADCAST, SLEEP  
120 sec  
5 sec  
smart phone, iID® INDUSTRY 0906 BLE or iID®gateway Ezurio MG-100  
TELID®7 configuration tool (Android)  
TELID®7soft (Android)  
TELID®7 beacon protocol, driverless

<sup>1</sup>) on request

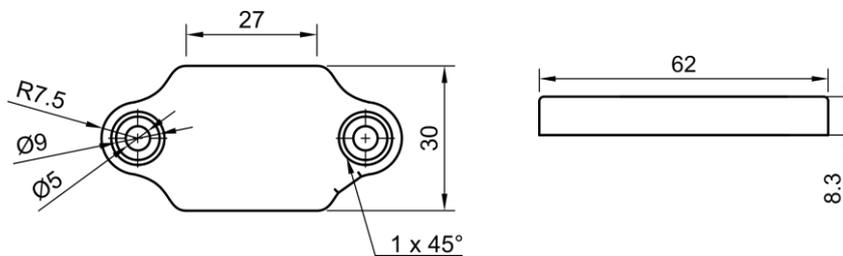
## TELID®710.hive-Q3062P

TELID®710.hive-Q3062P is a battery powered temperature sensor beacon for unique object identification and temperature measurement supporting operation with smartphones and other iID®contactless components such as BLE gateways. It is especially designed for use in beehives.



Device Type	Temperature Sensor Beacon
Measurement Range	-25 ... 60 °C
Accuracy Temperature -20 ... 50 °C -25 ... 60 °C	typ. ± 0.05 °C, max. ± 0.1 °C typ. ± 0.05 °C, max. ± 0.15 °C
Resolution Temperature	0.0078 °C
Battery	Li primary coin cell, CR2032
Product Code	<b>14.710.961.50</b>

### Dimensions:



all dimensions in mm