

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.



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This data sheet is subject to change.
Picture may differ from original product.
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

Environmental Conditions:

Working Temperature:

-25 °C ... +60 °C

Sensors:

Accuracy:
Resolution:

high-accuracy digital temperature sensor
typ. ±0.1 °C
0.008 °C

Data Memory:

Standard Content:
Remarks:
Security Features¹:

non-volatile memory, write endurance >10⁵ cycles
unique TELID identification number, parameter and calibration data
programmable by TELID®7 configuration tool
AES-128 encryption

Operation Modes:

Basic functions:
Broadcast interval:
Broadcast duration:

TELID®7 beacon protocol
MEASURE, BROADCAST, SLEEP
120 sec
5 sec

Housing:

Material:
Protection Class:
Mounting Instruction:

Q3062P
PA6
IP40
see application note

Energy Source:

Battery:
Lifetime:

Li primary coin cell, CR2032
replaceable
up to 2 seasons

Operation Devices:

Recommended Gateway:
Configuration Software:
Operating Software:

smart phone or BLE gateway with TELID®7 software
smart phone, iID® INDUSTRY 0906 BLE or iID®gateway Ezurio MG-100
TELID®7 configuration tool (Android)
TELID®7soft (Android)

Device Interface:

TELID®7 beacon protocol, driverless

¹) on request

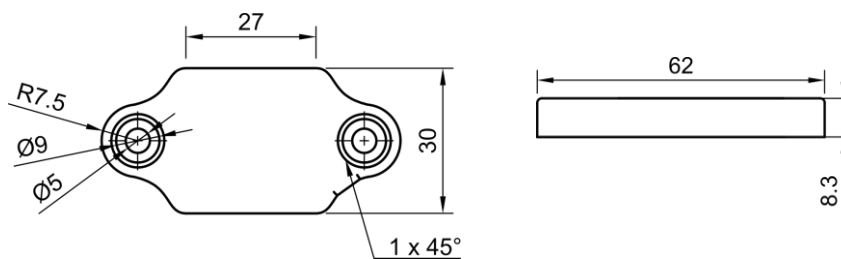
TELID® 710.hive-Q3062P

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 OSR = 4096	0.0078 °C
Battery	LiMnO ₂ primary cell (coin cell), CR2032
Product Code	14.710.961.50

Dimensions:



all dimensions in mm