

TELID® 710

BLE Temperature Sensor and Identification Beacon

- unique identification number
- designed for temperature measurements and item identification, e.g. for process or infrastructure monitoring
- Bluetooth Low Energy data communication
- lifetime up to 5 years due to built-in high performance Li battery

TELID®710 enhances the proven range of microSensys' TELID® family of smart wireless sensors and data loggers with a Bluetooth Low Energy communication interface. TELID®710 devices are useful for long range identification or sensing demands. The product can be attached to metal or non-metal surfaces and is even useable under water. The sealed housing offers no option to change the battery.



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This data sheet is subject to change.
Picture may differ from original product.
TELID710-009.docx

Contactless Interface:

RF Communication:

Carrier Frequency:

Communication Distance:

BLE TELID®7

long range identification and sensor system

Bluetooth Low Energy 5.2

2.4 GHz ISM band (2.402 – 2.480 GHz)

0 ... 10 m, depending on gateway type and environmental conditions

Sensor:

Operating Range:

Accuracy:

Resolution:

Temperature Time Constant:

temperature sensors

high-accuracy digital

-40 ... 125 °C, up to +150 °C as special version

±0.1 °C between -20 ... 50 °C

±0.25 °C between -40 ... 125 °C

0.01 °C

<1 min in water

Data Memory:

Standard Content:

Remarks:

Security Features¹:

EEPROM

non-volatile memory, write endurance >10⁵ 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:

D30P

D30P, sealed

diameter 30.0 mm, thickness 15 mm

PPSU

IP67

see application note

-25 °C ... +125 °C

-40 °C ... +125 °C, recommended 25 °C

Energy Source:

Battery:

Lifetime:

Li primary cell

HT available

cell not replaceable

up to 3 years, depending on usage

usage under -25 °C and over +85 °C reducing the battery lifetime

Operation Modes:

Transmission Protocol:

Basic Functions:

Broadcast Interval:

Broadcast Duration:

Measurement Interval:

Recommended Gateway:

Configuration Software:

Operating Software:

Device Interface:

MEASURE, ADVERTISING, SLEEP

TELID®7 beacon protocol

MEASURE, BROADCAST, SLEEP, PROGRAM1, CONNECT¹

15 sec ... 900 sec, programmed on delivery

> 1 sec, depending on connection period

15sec ... 900sec, programmed on delivery

smart phone, iID® INDUSTRY 0906 BLE or iID® gateway Ezurio MG-100

TELID®7 configuration tool (Android)¹

TELID®7DEMOsoft (Android)

TELID®7 beacon protocol, driverless

¹) on request

²) others on request

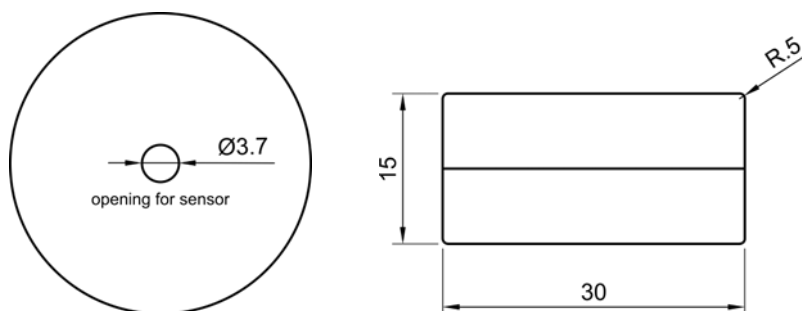
TELID® 710-D30P

TELID® 710-D30P 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.



Product Code	14.710.450.00	14.710.452.00
Using Range	-25 ... 100 °C	-40 ... 150 °C short time
Accuracy Temperature -20 ... 50 °C -40 ... 150 °C	± 0.1 °C -	± 0.1 °C ± 0,5 °C
Battery Capacity	Li primary cell 400 mAh	special primary cell 250 mAh

Dimensions:



all dimensions in mm