

TELID®730

BLE Humidity and Temperature Sensor Beacon

- unique identification number
- designed for humidity and temperature measurements,
e.g. for process or infrastructure monitoring
- Bluetooth Low Energy data communication
- lifetime up to 10 years due to built-in high performance Li battery

TELID®700 sensor beacons enhance the proven range of microSensys TELID® family of smart wireless sensors and data loggers with a Bluetooth Low Energy communication interface. TELID®700 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.
DS-TELID730-015.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

Sensors:

Operating Range:

Accuracy¹:

Resolution:

relative humidity and temperature sensor

with membrane, high accuracy

0 ... 100 %RH

-25 °C ... +85 °C

typ. ± 1.8 %RH

typ. ± 0.2 K

0.01 %RH

0.01 K

Data Memory:

Standard Content:

Remarks:

Security Features:

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

sealed

diameter 30 mm, thickness 12.5 mm

PPSU

IP67

see application note

-40 °C ... +85 °C

-25 °C ... +85 °C, recommended 25 °C

Energy Source:

Lifetime:

Li primary cell

up to 10 years

high performance, not replaceable

depending on usage

Operation:

Transmission Protocol:

Basic Functions:

Broadcast Interval:

Measurement Interval:

Communication Devices:

Configuration Software:

SLEEP / ACTIVE mode

TELID®7 beacon protocol

MEASURE and BROADCAST, SLEEP

programmable 10 s ... 6 h, <1 min significantly reduces battery life

programmable 10 s ... 6 h, <1 min significantly reduces battery life

recommended: smart phone, iID® INDUSTRY 0906 BLE, iID® gateway

NFC for mobile devices: TELID®7control (Android, iOS)

please note: not all smart phones are supported

Bluetooth for mobile devices: TELID®7sensor (Android, iOS)

TELID®7 beacon protocol, driverless, encrypted

¹) depends on sensor type, please refer to variant overview

TELID®730-D30P

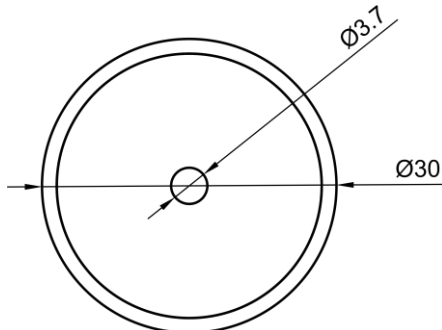
TELID®730-D30P is a battery powered humidity and temperature sensor beacon for unique object identification, temperature and relative humidity measurement supporting operation with smartphones and other iID®contactless components such as BLE gateways.



Device type	Humidity & Temperature Sensor Beacon	Humidity & Temperature Sensor Beacon
Measurement Range	0 ... 100 %RH	0 ... 100 %RH
Accuracy Humidity 30 ... 33 %RH 10 ... 90 %RH 0 ... 100 %RH	± 1.8 % ± 2 % ± 3 %	± 1 % ± 1.5 % ± 1.75 %
Resolution Humidity	0.01 %RH	0.01 %RH
Response Time $\tau_{63\%}$	4 s	4 s
Accuracy Temperature 0 ... 60 °C -25 ... 60 °C	± 0.2 K ± 0.4 K	± 0.1 K ± 0.2 K
Resolution Temperature	0.01 K	0.01 K
Battery Capacity	Li primary cell 400 mAh	Li primary cell 400 mAh
Product Code	14.731.450.00	14.731.450.10²

²⁾ on request

Dimensions:



all dimensions in mm