

## 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 5 years due to built-in high performance 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 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-TELID730-013.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:  
Accuracy<sup>1</sup>:

high-accuracy relative humidity and temperature sensor with PTFE membrane  
0 ... 100 %RH  
typ. ± 1.8 %RH  
typ. ± 0.2 °C  
Resolution:  
0.01 %RH  
0.01 °C

### Data Memory:

Standard Content:  
Remarks:  
Security Features<sup>2</sup>:

non-volatile memory, write endurance >10<sup>5</sup> 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 in Air:  
Storage Temperature:

D30P, sealed  
diameter 30.0 mm, thickness 15 mm  
PPSU  
IP67  
see application note  
-25 °C ... +60 °C  
-40 °C ... +85 °C, recommended 25 °C

### Energy Source:

Battery:  
Lifetime:

not replaceable  
Li primary cell  
typ. 1 ... 5 years, depending on usage

### Operation:

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

TELID®7 beacon protocol  
MEASURE, BROADCAST, SLEEP, PROGRAM<sup>2</sup>, CONNECT<sup>2</sup>  
15 sec ... 900 sec, programmed on delivery  
> 1 sec, depending on connection period  
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>) depends on sensor type, please refer to variant overview  
<sup>2</sup>) on request

## TELID®730-D30P

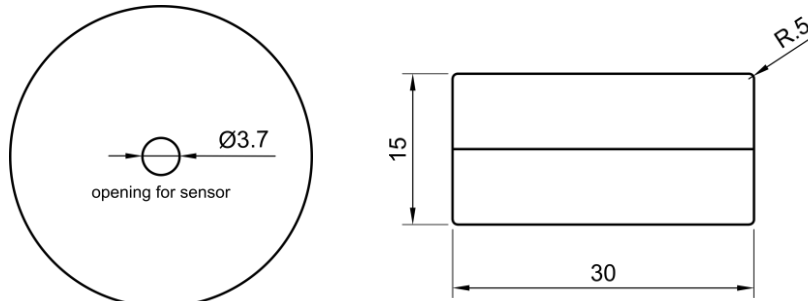
TELID®730-D30P is a battery powered humidity and temperature sensor beacon for unique object identification, temperature and relative humidity measurement supporting operation with smartphones and other **iID**®contactless components such as BLE gateways.



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 °C ± 0.4 °C	± 0.1 °C ± 0.2 °C
Resolution Temperature	0.01 °C	0.01 °C
Battery Capacity	Li primary cell 400 mAh	Li primary cell 400 mAh
Product Code	<b>14.731.450.00</b>	<b>14.731.450.10<sup>3</sup></b>

<sup>3)</sup> on request

### Dimensions:



all dimensions in mm