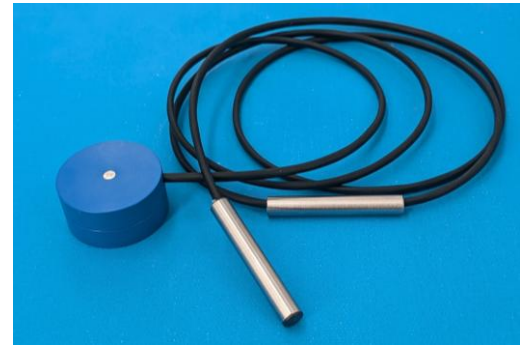


TELID® 714

BLE Temperature Sensor and Identification Beacon

- unique identification number
- smart external sensor designed for precise temperature monitoring, capable of measuring up to three distinct temperature points
- Bluetooth Low Energy data communication
- 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.



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 TELID714-D30P-002.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

Sensor:

Operating Range:

Accuracy:

Resolution:

temperature sensors

high-accuracy digital

-40 ... 125 °C

±0.1 °C between -20 ... 50 °C

±0.25 °C between -40 ... 125 °C

0.01 °C

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 tool¹

AES-128 encryption

Mechanical / Environmental:

Housing Device:

Dimensions Device:

Material Device:

Dimensions External Sensor:

Material External Sensor:

Protection Class:

Mounting:

Working Temperature:

Storage Temperature:

D30P

D30P, sealed, applicable in dry or wet air

diameter 30.0 mm, thickness 15 mm

PPSU

diameter 6 mm, length 40 mm

stainless steel

IP67

see application note

-25 °C ... +125 °C

-40 °C ... +125 °C, recommended 25 °C

Energy Source:

Battery:

Lifetime:

Li primary cell

cell not replaceable

up to 5 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® 714.2-D30P

TELID® 710-D30P is a battery powered temperature sensor beacon for unique object identification and temperature measurement at two different positions featuring tiny external sensor and supporting operation with smartphones and other **iID**® contactless components such as BLE gateways.



Product Code	14.714.452.05	
Special Using Range	-40...150 °C short time	
Time Constant Temperature in Water within D30P case external sensors	max. 1 min max. 1 min	
Total Cable Length (approx.)	50 cm, special cable	
Battery Capacity	Li primary cell 400 mAh, HT	

max. 1 min
max. 1 min

TELID® 714.3-D30P

TELID®714.3-D30P is a battery powered temperature sensor beacon for unique object identification and temperature measurement at three different positions featuring tiny external sensors and supporting operation with smartphones and other **iID**® contactless components such as BLE gateways.



Product Code	14.714.451.05	14.714.451.10
Recommended Using Range	-25 ... 100 °C	-25 ... 100 °C
Time Constant Temperature in Air within D30P case external sensors	max. 1 min max. 1 min	max. 1 min max. 1 min
Total Cable Length (approx.)	50 cm (sensors at 25 and 50 cm)	100 cm (sensors at 50 and 100 cm)
Battery Capacity	Li primary cell 400 mAh	Li primary cell 400 mAh

max. 1 min
max. 1 min

Dimensions:

