

TELID® 740

BLE Pressure and Temperature Sensor Beacon

- unique identification number
- designed for pressure 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 hermetically sealed housing offers no option to change the battery.



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Contactless Interface:

RF Communication:

Carrier Frequency:

Communication Distance:

TELID®7

This data sheet is subject to change without notice.
Picture may differ from original product.
DS-TELID740-007.docx

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

Sensors:

Operating Range¹:

Accuracy¹:

Resolution RMS¹:

MEMS pressure

gel-filled, water resistant pressure and temperature sensor

0 ... 30 bar

-25 °C ... +85 °C

min. ±4 mbar

min. ±2 K

max. 0.02 mbar

max. 0.03 K

Data Memory:

Standard Content:

Remarks:

Security Features²:

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 in Air:

Storage Temperature:

D30P

D30P, sealed with ring
diameter 30 mm, thickness 13.5 mm

PPSU

IP67

see application note

-25 °C ... +85 °C

-40 °C ... +85 °C, recommended 25 °C

Energy Source:

Battery:

Lifetime:

Li primary cell

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:

Beacon protocol

TELID®7 beacon protocol
MEASURE, BROADCAST, SLEEP, PROGRAM², CONNECT²

15 sec ... 900 sec, programmed on delivery

> 1 sec, depending on connection duration

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

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

please note: not all smart phones are supported

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

TELID®7 beacon protocol, driverless, encrypted

Operating Software:

Device Interface:

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

²) on request

TELID®740-D30P

TELID®740-D30P is a battery powered pressure and temperature sensor beacon for unique object identification, temperature and pressure measurement supporting operation with smartphones and other **iID®** contactless components such as BLE gateways.



Device Type	Pressure & Temperature Sensor Beacon	Pressure & Temperature Sensor Beacon
Operating Pressure Range	300 ... 1200 mbar	0 ... 30 bar
Accuracy Pressure 0 ... 45 °C 0 ... 60 °C -20 ... 85 °C	± 2 mbar ± 4 mbar	± 200 mbar ± 400 mbar
Resolution Pressure OSR = 4096	0.021 mbar	0.28 mbar
Operating Temperature Range	-25 °C ... +85 °C	
Accuracy Temperature over operating temperature range	± 2 °C	± 4 °C
Resolution Temperature OSR = 4096	0.003 °C	0.0026 °C
Battery Capacity	Li primary cell 400 mAh	Li primary cell 400 mAh
Product Code	14.741.458.10	on request

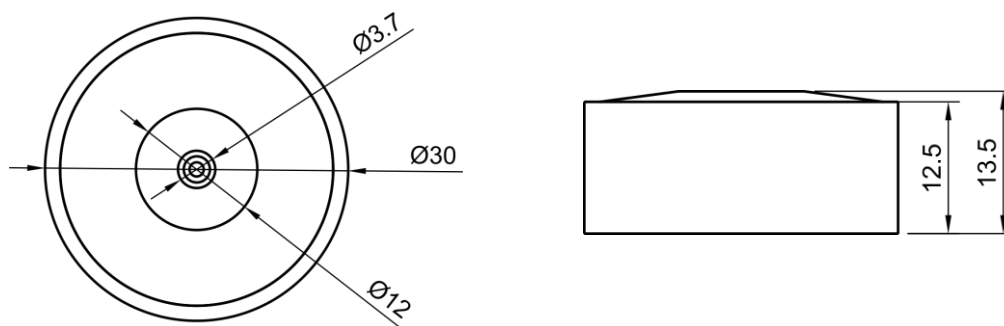
TELID®740.chrono-D30P preliminary

TELID®740.chrono-D30P builds on the proven performance of the **TELID®740** by adding the ability to set custom measurement start and end times. To configure the time parameters, a dedicated programming tool is required, ensuring secure and reliable setup tailored to specific use case. For detailed guidance and configuration options, an Application Note for the **TELID®740.chrono** is available upon request.



Device Type	Pressure & Temperature Sensor Beacon	Pressure & Temperature Sensor Beacon
Operating Pressure Range	300 ... 1200 mbar	0 ... 30 bar
For all additional specifications, refer to TELID®740-D30P		
Accuracy Time Base	1 s	
Preselection of Measurement Time	max. 24 h	
Product Code	14.741.458.20	on request

Dimensions:



all dimensions in mm