microSensys
MAKE THINGS WIRELESS

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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This data sheet is subject to change.
Picture may differ from original product.
DS-TELID740-005.docx

Contactless Interface:	TELID®7 long range identification and sensor system
RF Communication:	Bluetooth Low Energy 5.2
Carrier Frequency:	2.4GHz ISM band (2.402 – 2.480 GHz)
Communication Distance:	0 ... 10 m, depending on gateway and environmental conditions
Sensors:	gel-filled, water resistant pressure and temperature sensor
Operating Range[1]:	0 … 30 bar
Accuracy[1]:	min. ±4 mbar
	min. ±2 °C
Resolution RMS[1]:	max. 0.02 mbar
	max. 0.003 °C
Data Memory:	non-volatile memory, write endurance >10^5 cycles
Standard Content:	unique **TELID®** identification number, parameter and calibration data
Remarks:	programmable by **TELID®**7 configuration tool
Security Features[2]:	AES-128 encryption
Mechanical / Environmental:	
Housing	D30P, sealed
Dimensions:	diameter 30 mm, thickness 15 mm
Material:	PPSU
Protection Class:	IP68
Mounting:	see application note
Working Temperature in Air:	-25 °C ... +60 °C
Storage Temperature:	-40 °C ... +85 °C, recommended 25 °C
Energy Source:	not replaceable
Battery:	Li primary cell
Lifetime:	typ. 1 … 5 years, depending on usage
Operation:	
Transmission Protocol:	**TELID®**7 beacon protocol
Basic Functions:	MEASURE, BROADCAST, SLEEP, PROGRAM[2], CONNECT[2]
Broadcast Interval:	15 sec … 900 sec, programmed on delivery
Broadcast Duration:	> 1 sec, depending on connection duration
Recommended Gateway:	smart phone, **iID®** INDUSTRY 0906 BLE or **iID®** gateway Ezurio MG-100
Configuration Software:	**TELID®**7 configuration tool (Android)
Operating Software:	**TELID®**7soft (Android)
Device Interface:	**TELID®**7 beacon protocol, driverless

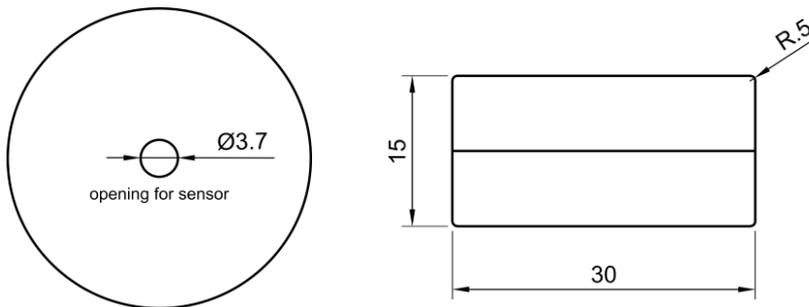[1]) depends on sensor type, please refer to variant overview
[2]) on request

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
Measurement 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
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	**14.741.450.10**	**14.741.450.20**

Dimensions:

Ø3.7
opening for sensor

R.5
15
30

all dimensions in mm