PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 710

Temperature sensor and identification beacon

- unique identification number
- integrated temperature sensor
- mountable on nonmetal and metal objects
- integrated push button
- Bluetooth Low Energy data communication

TELID® 700 extends the proven range of passive sensors and sensor data loggers with wireless HF and UHF RFID interface by a Bluetooth Low Energy communication interface.

TELID® 700 devices are useful for long range identification or sensing demands. Microsensys provides support for stationary and mobile applications.

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Contactless interface: long range identification and sensor system TELID® 700
RF communication: Bluetooth Low Energy 4.2
Carrier frequency: 2,4GHz
Communication distance: 0 ... 30 m, depending on gateway type and environmental conditions

Environmental parameters:
Working temperature: -20°C ... +60°C
Storage temperature: -40°C ... +85°C (w/o battery), recommended 25°C

Sensor parameters: integrated semiconductor sensor
Sensors: temperature
(see type information)

Memory parameters: EEPROM non volatile memory, read write endurance >10^6 cycles, data retention > 40 years
Content: unique TELID identification number, parameter data
Remark: programmable by TELID® 700 configuration tool

Security features*:
Write protection: partial read-only protection
Data encoding: 128-bit hash encoding
Originality: ECC-based programmable originality signature

Operation: SLEEP, RUN, MEASURE
Basic functions: PROGRAM, BROADCAST, CONNECT*
Sampling rate: 15sec … 900sec, programmable
Broadcast period: > 0.5sec, depending on connection period

Housing: plastic housing, openable, for dimension see type information
Material: Poly Carbonate
Protection class: IP68
Marking: custom print (on request, MOQ 500 pcs)
Mounting instruction: on nonmetal and metal objects, self-adhesive or screwed, see type information

Energy:
Consumption: Sleep: 4 µA, RUN 2mA, TRANSMIT 4mA
Battery: CR2032, replaceable by service
Lifetime: typ. 2 years, depending on usage

Operation: requires smartphone or BLE gateway
Appropriate gateway: iID® controller CCO, BLE4.2 enabled smartphone
Configuration s*oftware:* TELID® 700 configuration tool (Android)
Operating s*oftware:* TELID® 700 DEMOsoft (Android)
iID® DATAcapture software (running on iID® controller)*

Device interface: driverless, TELID® 700 beacon protocol
Based on iID® interface protocol V4

*) in development or on on request

TELID® 710-T48P

TELID® 710-D48P is a battery powered temperature sensor beacon for unique object identification, temperature measurement supporting operation with smartphones and other iID® contactless components such as gateways. The product can be attached to metal or nonmetal surfaces, CR2032 battery is replaceable by opening the housing using TELID® 700 opener tool.

Device type:	Temperature sensor beacon	Unit
Mounting	On metal and nonmetal surface, self-adhesive glue pad	
Package	D48P Poly carbonate	
Dimension	D48 x 11	mm
Measurement range	-25°C … +60°C -13°F … +149°F	
Accuracy	+/- 1K at -40°C … +125°C (-40°F … +257°F) +/- 0.5K at 0°C … +65°C (32°F … +149°F)	
Resolution	0.0625	°K
Thermal contact	-	
Product code	**14.710.811.000**	

TELID® 710-T64P

TELID® 710-D64P is a battery powered temperature sensor beacon for unique object identification, temperature measurement supporting operation with smartphones and other iID® contactless components such as gateways. The product can be attached to metal or nonmetal surfaces, CR2032 battery is replaceable by opening the housing using TELID® 700 opener tool.

Device type:	Temperature sensor beacon	Unit
Mounting	On metal and nonmetal surface, by screws (see quick start guide)	
Package	D48P Poly carbonate	
Dimension	D64 x 11	mm
Measurement range	-25°C … +60°C -13°F … +149°F	
Accuracy	+/- 1K at -40°C … +125°C (-40°F … +257°F) +/- 0.5K at 0°C … +65°C (32°F … +149°F)	
Resolution	0.0625	°K
Thermal contact	-	
Product code	**14.710.821.000**	

TELID® 710-T5070P

TELID® 710-T5070P is a battery powered temperature sensor beacon for unique object identification, temperature measurement supporting operation with smartphones and other iID® contactless components such as gateways. The product can be attached to metal or nonmetal surfaces, 2 AA batteries can be replaced by unscrewing the housing screws.

Device type:	Temperature sensor beacon	Unit
Mounting	On metal and nonmetal surface, self-adhesive glue pad, glue	
Package	T5070P ABS	
Dimension	70 x 49 x 22	mm
Measurement range	-25°C … +60°C -13°F … +149°F	
Accuracy	+/- 1K at -40°C … +125°C (-40°F … +257°F) +/- 0.5K at 0°C … +65°C (32°F … +149°F)	
Resolution	0.0625	°K
Thermal contact	-	
Product code	**14.710.831.000***	

*) in development or on request