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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*mic**roSensys***
RFID *in motion*

Contactless Interface:	BLE TELID®7	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 Conditions:	IP68	not all types
Working Temperature:	-25°C ... +60°C	type 710-D30P up to +85°C
Storage Temperature:	-40°C ... +85°C	recommended 25°C
Sensor:	integrated semiconductor temperature sensor	
Special sensors:		see type information
Data Memory:	EEPROM	non volatile memory, write endurance >10^6 cycles
Standard Content:		unique TELID identification number, parameter and calibration data
Remarks*:		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:		15 sec … 900 sec, programmable
Broadcast period:		> 1 sec, depending on connection period
Connection period:		0.5…2 sec, depending on broadcast period
Housing:	plastic housing	for dimension see type information
Material:		Poly Carbonate / PEEK, Epoxy (depending on type)
Protection class:		IP68
Marking:		customized printing (on request, MOQ 500 pcs)
Mounting instruction:		see application notes
Energy Source:	Li primary cell	
Consumption:		SLEEP: 0.3 µA, RUN: 265µA, MEASURE: 790µA, TRANSMIT: 13.5mA
Battery:		not replaceable
Life Time:		1 … 5 years, depending on usage
Operation Devices:	Smart Phone or BLE Gateway with TELID®7 software	
Appropriate Gateways:		iID®controller CCO, iID® INDUSTRY.0906 BLE, BLE4.2 enabled smartphone
Configuration Software:		TELID®700 configuration tool (Android)
Operating Software:		TELID®710soft (Android) or iID® DATAcapture for iID®controller*
Device Interface:	TELID®700 beacon protocol	driverless
		based on iID® interface protocol V4

*) in development or 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-D30P

TELID®710-D30P is a long life 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. It is hermetically encapsulated including Li battery.

Device type:	Temperature sensor beacon	Unit
Mounting	On metal and nonmetal surface, self-adhesive glue pad, glue	
Package	D30P Peek / Epoxy	
Dimension	D30 x 12	mm
Measurement range	-25°C … +85°C -13°F … +185°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