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MAKE THINGS WIRELESS

TELID® 730

BLE Humidity Sensor and Identification Beacon

- unique identification number
- designed for temperature and moisture / humidity measurements, e.g. in building industry
- Bluetooth Low Energy data communication

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

TELID®700 devices are useful for long range identification or sensing demands. The product can be attached to metal or non metal surfaces and is useable under water. The completely hermetically sealed housing offers no option to change the battery.

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This data sheet is subject to change. Please contact microsensys for latest technical information. Picture may differ from original product.

TELID730-010.DOCX

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 ... 10 m, depending on gateway type and environmental conditions
Environmental Conditions:	IP68, excluding sensor
Working Temperature in Air:	-25°C ... +60°C
Storage Temperature:	-40°C ... +85°C, recommended 25°C
Sensors:	High-Accuracy Relative Humidity and Temperature Sensor
Working Range:	0 … 100 %RH
Resolution:	theoretical 0.01 %RH
Response Time:	4 s
Working Range:	-40°C … +125°C
Thermal Time Constant:	approx. 20 s
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
Housing:	D30P, hermetically closed
Dimension:	D30.0 mm, thickness 15 mm
Material:	PPSU
Protection Class:	IP68
Mounting Instruction:	see application note
Energy Source:	Li primary cell
Battery:	not replaceable
Life Time:	1 … 5 years, depending on usage
Operation Devices:	Smart Phone or BLE Gateway with TELID®7 software
Appropriate Gateway:	iID®controller CCO, BLE4.2 enabled smartphone
Configuration Software:	TELID®700 configuration tool (Android)
Operating Software:	TELID®700soft (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

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TELID® 730-D30P

TELID®730 is a battery powered relative humidity sensor beacon for unique object identification, temperature and humidity measurement supporting operation with smartphones and other iID®contactless components such as gateways.

Device type:	Pressure and temperature sensor beacon	Unit
Measurement Range	0 to 100	%RH
Typ. Accuracy RH	+/-1.8 at 30…70 %RH +/-2 at 0…90 %RH +/-3 at 90...100 %RH	%RH
Typ. Accuracy Temperature	+/-0.2 at 0°C … +65°C +/-0.3 at -40°C … +85°C +/-0.5 at -85°C … +125°C	°K
Battery Capacity	Li primary cell, 400 mAh	
Productcode	**14.731.450.00**	

*) in development or on request