

PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 200.nfc

NFC sensor transponder 13.56MHz

- passive sensor device with user memory
- devices for temperature and humidity measurement
- non flexible hard TAG, Q43S, enabled for usage on metal
- contactless data communication ISO 14443A 2-3, NFC forum type 2 compliant

Passive sensors are very useful in industrial solutions, for quality check in food and pharma industry, for temperature check in maintenance processes and transport and logistics.

RFID Sensor TELID® devices are an integral part of *microsensys* iID® system solution. Beneath compatibility with iID®contactless readers, TELID®200.nfc sensor transponders are compatible with NFC supporting mobile devices.



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RF Technology:	RFID system TELID®200	passive sensor transponder
RF communication:		NFC type 2
Carrier Frequency:		13.56 MHz
Communication Rate:		106 kbps
Communication Distance:	0 ... 30 mm, depending on reader antenna and environmental conditions	
Sensors:	temperature, humidity	details see table blow
Memory:	EEPROM	
Content:		OTP data, ID, parameters
Data Retention / Endurance:		20 years / 100.000 cycles
Free User Memory:		up to 8kBit
Environment:	-25°C ... +85°C	
Working Temperature:		-25°C ... +85°C
Storage Temperature:		-40°C ... +125°C, maximum range
Housing:	Q43S	
Dimensions:		43 x 27 mm², thickness max. 4.0mm
Protection Class:		IP67
Packaging:		Q43S, material PA66 GF36 red, epoxy black
Marking:		laser printed product type on top
Mounting instruction:		glue, power strip or plastic screws, on nonmetal or metal objects
Operating Modes:		PASSIVE SENSOR
Measure Modes:		ON LINE MEASUREMENT
Basic Functions:	read UID, reading of sensor parameters, reading/writing of object data memory	
Parameters:		calibration data (optional)
Battery:		no battery
Operation:		supported by HF RFID or NFC capable devices
Appropriate RFID Reader:	DESKTOPsmart, M30-HEAD reader, POCKETwork, Smart Phones	
Evaluation Software:	iID®DEMOsoft (SENSORdemo), iID®DATAcollector optional	
Platform:	Windows™ (7, 8, 10), Android™ (7, 8 and 9)	

Types:

	temperature	temperature and humidity	
Working range	-40°C ... +125°C	0%RH ... 100%RH (0°C ... +80°C)	-40°C ... +120°C
Resolution	0.07°K	0.7%RH	0.2°K
Accuracy	± 0.5°K (0°C ... +65°C) ± 1.0°K (-40°C... +125°C)	± 5.0%RH (25%RH... 85%RH) ± 7.0%RH (0%RH... 100%RH)	± 0.5°K (0°C ... +60°C) ± 1.0°K (-30°C ... +90°C)
Product code	13.212.714.10	13.232.714.10	

*) in development or on request