## **PRODUCT DATASHEET**

TELID<sup>®</sup> RFID Sensors

## **TELID<sup>®</sup> 312**

## RFID temperature data logger 13.56MHz

- semi passive sensor data logger
- temperature measurement
- non flexible hard TAG, package Q54S
- mountable on metal or nonmetal objects
- contactless data communication based on ISO14443

RFID Sensor TELID<sup>®</sup> devices are an integral part of *microsensys* iID<sup>®</sup> system solution. These devices are very useful for wireless sensor applications in industrial solutions, especially in maintenance processes and in building industry. TELIDs are operating optimal with microsensys standard RFID stationary and mobile reader devices.



TELID312-04

this data sheet is subject to change

contact microsensys for latest information

RFID Technology: Chip Type: Carrier Frequency: Communication Rate: Communication Distance:	RFID system TELID <sup>®</sup> 300 iID-L 13.56 MHz 106 kbps 0 20 mm	iID <sup>®</sup> 3000 based on ISO 14443B closed coupling HF sensor solution depending on reader antenna and environmental conditions
Data Memory: Static Memory: Recording Capacity:	EEPROM read write type endurance >100.000 cycles, data retention > 10 years parameters, calibration data, manufacturer OTP, ID-No 1 Mbit, 16 bit per sample	
Real Time Clock:	quartz stabilized	synchronisation by HOST
Temperature Sensor: Working Range: Resolution: Accuracy: Thermal Time Constant:	semiconductor sensor -30°C +85°C 0.1°K +/- 0.5°K +/- 1.0°K 30 120s	at 0°C +65°C at -30°C +85°C depending on mounting technology
Operating Modes: Measure Modes: Basic Functions: Parameters: Sample Time:	SLEEP, ACTIVE LOGGING LOGGING: STOP FULL or STOP TIME stop time programmable programming of parameters, item information and measure modes set start time, read header, read data memory, set RF marker calibration data and event limits (optional) 1 min 59 min programmable	
Battery: Life Time:	Li MnO₂, 125 mAh up to 5 years	depending on using conditions
Working Temperature: Storage Temperature:	-25°C +80°C -40°C +85°C	recommended 25°C
Dimensions: Protection Class: Packaging: Marking: Mounting Instruction:	54 x 40 mm², thickness ma IP 67 Q54S Iaser printed pro glue, power strip	material PA66 GF36 blue, epoxy black
Appropriate RFID Reader:	PEN reader HEAD reader POCKETwork	with RS232TTL, USB or Bluetooth with RS232TTL, CAN or USB for industrial application with USB or Bluetooth
Software:	TELIDsoft 5.0	Microsoft Windows Vista, 7 and 8
Type : Memory Capacity: Max. T-Samples: Security Event Sensor:	1M 1M approx. 12000 appro	2.710.10* *) in development bit x. 10000 x. 10 events

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