**PRODUCT DATASHEET** 

TELID<sup>®</sup> RFID Sensors

## TELID<sup>®</sup> 311-125°C

## **RFID** temperature data logger

- semi-active sensor device
- temperature measurement -35°C ... +125°C, +/-0.1 K
- non flexible hard TAG, package D27
- contactless data communication ISO 14443B

RFID Sensor TELID<sup>®</sup> devices are an integral part of *microsensys* iID<sup>®</sup> system solution. These devices are very useful for wireless sensors applications in industrial solutions, for quality check in food and pharma industry, for temperature check in maintenance processes and transport and logistics. TELIDs are operating optimal with microsensys standard RFID reader.



RFID Technology: Chip Type: Carrier Frequency: Communication Rate: Communication Distance:	RFID system TELID iID-L, iID 13.56 Mł 106 kbps 0 1 cm	0 <sup>®</sup> 300,based on ISO 14443B -3000 Hz 6 n depending on reader anter	closed coupl	ing HF sensor solution
Data Memory: Static Memory: Data Memory:	EEPROM read write type endurance >100.000 cycles, data retention > 10 year parameters, calibration data, manufacturer OTP 256 kbit, up to 8,000 samples (programmable)			ta retention > 10 years
Temperature Sensor: Working Temperature: Resolution: Accuracy: Thermal Time Constant:	semiconductor sensor -35°C +125°C 0. 125 K +/- 0.5 K +/- 2.0 K approximately ≤2 min			at 0°C +60°C at -35°C +85°C in water
Clock:	MEMS or quartz stabilized RTC			
Operating Mode: Measure Modes: Basic Functions: Parameters:	ACTIVE or SLEEP STOP FULL or ROLL OVER programming of sensor parameters, read parameters, read memory, get temperature, read UID, histogram analysis start delay (RTC), sample time (10 s 256min), temperature limits, calibration data (optional)			
Battery: Life Time:	Li Thionylchlorid, 500 mAh 3 … 6 years		dependi	ng on using conditions
Working Temperature: Storage Temperature:	-35°C +125°C -40°C +90°C (short time 125°C) recommended 25°C			
Dimensions: Protection Class: Packaging: Marking: Mass: Mounting Instruction:	approx. D27 mm , 1 IP 67 PEEK ring laser printed product approx. 13 g	thickness 12 mm ct type on top	opt	epoxy filling (black) optional unique ID-No ional two color printing glue or adhesive tape
Appropriate RFID Reader:	PEN reader HEAD reader DESKTOP	w with RS232T	ith RS232TTL, USB TL, RS485 or USB fo RFID read	or Bluetooth interface or industrial application write device with USB
Type : Package: Temperature Range:	<b>14.311.484.04</b> PEEK, epoxy -35°C+125°C	<b>14.311.485.00*</b> PEEK/PEEK, epoxy filling -25°C+136°C	<b>14.311.484.06</b> MEMS oscillator -35°C+125°C	*) in development

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