

PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 311

RFID temperature data logger

- semi-active sensor device
- temperature measurement -35°C ... +125°C
- non flexible hard TAG, package D27PEEK
- contactless data communication ISO 14443B

RFID Sensor TELID® devices are an integral part of *microsensys* iID® 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.



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RFID in motion

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This data sheet is subject to change
Contact us for latest information

TELID311-125-04.docx

RFID Technology:	RFID system TELID®300, based on ISO 14443B	
Chip Type:	iID-L, iID-3000	closed coupling HF sensor solution
Carrier Frequency:	13.56 MHz	
Communication Rate:	106 kbps	
Communication Distance:	0 ... 1 cm depending on reader antenna and environmental conditions	
Data Memory:	EEPROM	read write type endurance >100.000 cycles, data retention > 10 years
Static Memory:		parameters, calibration data, manufacturer OTP
Data Memory:		256 kbit, up to 8,000 samples (programmable)
Temperature Sensor:	semiconductor sensor	
Working Temperature:	-35°C ... +125°C	
Resolution:	0.125 K	
Accuracy:	+/- 0.5 K	at 0°C ... +60°C
	+/- 2.0 K	at -35°C ... +125°C
Thermal Time Constant:	approximately ≤2 min	in water
Clock:	MEMS stabilized RTC	quartz stabilized RTC on inquiry
Operating Mode:	ACTIVE or SLEEP	
Measure Modes:	STOP FULL or ROLL OVER	
Basic Functions:		programming of sensor parameters, read parameters, read memory, get temperature, read UID, histogram analysis
Parameters:		start delay (RTC), sample time (10 s ... 256min), temperature limits, calibration data (optional)
Battery:	Li Thionylchlorid, 500 mAh	
Life Time:	up to 3 years	depending on using conditions
Working Temperature:	-35°C ... +125°C	
Storage Temperature:	-40°C ... +90°C (short time 125°C)	recommended 25°C
Dimensions:	approx. D27 mm, thickness 12 mm	
Protection Class:	IP 67	
Packaging:	PEEK ring	epoxy filling (black)
Marking:	laser printed product type on top	optional unique ID-No optional two color printing
Mass:	approx. 13 g	
Mounting Instruction:		glue or adhesive tape
Appropriate RFID Reader:	PEN reader HEAD reader DESKTOP	with RS232TTL, USB or Bluetooth interface with RS232TTL, RS485 or USB for industrial application RFID read write device with USB

Type : 14.311.484.06
Package: PEEK, epoxy
Temperature Range: -35°C...+125°C

*) in development