TELID® 311

RFID temperature data logger

- semi-active sensor device
- temperature measurement -35°C ... +125°C, +/-0.1 K
- non flexible hard TAG, package D27M
- 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 is data sheet is subject to change
Contact us for latest information

TELID311-06

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	
Antenna Type:	P15 integrated	placed on top
Communication Distance:	0 ... 5 mm	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	integrated in device volume
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 … +85°C
Thermal Time Constant:	approximately 3 min in air, 30 s in water	mounted on object
Clock:	quartz stabilized RTC	
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 time, sample time (1min … 256min), temperature limits, calibration data (optional)
Battery:	Li Thionylchlorid, 500 mAh	
Life Time:	3 … 6 years	depending on using conditions
Working Temperature:	-35°C ... +125°C (short time 125°C, in liquid only up to 105°C)	
Storage Temperature:	-40°C ... +125°C (short time 125°C, in liquid only up to 105°C),	recommended 25°C
Remark:		temperatures over 85°C reducing the battery life time
Dimensions:	approx.. D27 mm , thickness 12 mm	
Protection Class:	IP 67	
Packaging:		stainless steel ring, black EP filling, black PEEK cap on top
Marking:		laser printed product type on top, optional unique ID-No
Mounting Instruction:		glue or adhesive tape
Appropriate RFID Reader:	PEN reader	with RS232TTL, USB or Bluetooth interface
	HEAD reader	with RS232TTL, RS485 or USB for industrial application
	DESKTOP	RFID read write device with USB
Software:	TELID application software for Windows PC and mobile devices on inquiry	

Type :	14.311.482.00*	14.311.484.00*	14.311.484.01	*) no longer available
Package:	D27M	D27M	D27Mspecial filling	
Temperature Range:	-35°C…+90°C	-35°C…+125°C	-35°C...+125°C no liquid, 105°C liquid	