PRODUCT DATASHEET

TELID[®] RFID Sensors

TELID[®] 311.ac

RFID temperature data logger for autoclaves

- semi-passive sensor device
- temperature measurement -15°C ... +135°C
- non flexible hard TAG, package D27
- 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 medicine and pharma industry, for temperature check in maintenance and quality processes. TELIDs are operating optimal with microsensys standard RFID reader.



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RFID Technology: Chip Type: Carrier Frequency: Communication Rate: Communication Distance:	RFID system TELID [®] 300 iID-L 13.56 MHz 106 kbps 0 5 mm		iID [®] 3000 based on ISO 14443B closed coupling HF sensor solution nding on reader antenna and environmental conditions
Data Memory: Static Memory: Recording Capacity:	EEPROM read write type endurance >1 parameters, calibration data, manufactur 256 kbit, up to 8,000 samples (programm		
Real Time Clock:	quartz stabilized RTC		synchronisation by HOST
Temperature Sensor: Working Range: Resolution: Accuracy: Thermal Time Constant:	semiconductor sensor with sensor dot outside -30°C +140°C 0.125°K +/- 0.5°K +/- 2.0°K approx. 10 s		ot outside at 0°C +65°C at -15°C +135°C depending on mounting technology
Operating Modes: Measure Modes: Basic Functions: Parameters: Sample Time:	SLEEP, ACTIVE LOGGING LOGGING: STOP FULL or STOP TIME 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 primary cell, 400 mAh up to 3 years		depending on using conditions
Working Temperature: Storage Temperature:	-25°C +135°C -30°C +140°C lo		long term temperature: recommended 25°C
Dimensions: Protection Class: Case: Marking: Mounting Instruction:	approx. D27 mm, thickness 16 mm IP67 D27ST laser printed product type on top depending on application		on top optional unique ID-No see application note
Appropriate RFID Reader:	PEN reader DESKTOPsmart reader M30-HEAD reader POCKETwork		with RS232TTL, USB or Bluetooth with USB for desktop application with RS232TTL, CAN or USB for industrial application with USB or Bluetooth for mobile application
Software:	TELIDsoft 5.0		Microsoft Windows
Type : Memory Capacity: Max. T-Samples: Calibration Option:	14.311.486.00 256 8,000 -	14.311.486.10 256 8,000 calibration at 1	kbit samples

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