

PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 300.nfc

NFC sensor data logger 13.56MHz

- semi passive sensor data logger
- measurement of ambient temperature, humidity, pressure, shock event (depending on device type)
- non flexible hard TAG, package Q54S
- mountable on nonmetal objects
- NFC data communication

RFID Sensor TELID® devices are an integral part of *microsensys* iID® system solution. These devices are very useful for wireless sensor applications. Caused by their NFC interface they are suitable for supply chain tracking and mobile delivery processes.



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RF Technology:	RFID system TELID®300	sensor data logger
RF communication:		NFC type 2
Carrier Frequency:		13.56 MHz
Communication Rate:		106 kbps
Communication Distance:	0 ... 30 mm, depending on reader antenna and environmental conditions	
Sensors:	temperature, humidity, pressure, acceleration	(only shock event logging)
Real Time Clock:	RC oscillator	synchronisation by HOST
Memory:	EEPROM	
Content:		OTP data, ID, parameters
Data Retention / Endurance:		10 years / 100.000 cycles
Logging Memory:		up to 4kByte
Environment:	-25°C ... +60°C	
Working Temperature:		-25°C ... +60°C
Storage Temperature:		-40°C ... +85°C, recommended 25°C
Housing:	Q54S	
Dimensions:		54 x 40 mm ² , thickness max. 4.5mm
Protection Class:		IP67 (only 14.312.714.00)
Packaging:		Q54S, material PA66 GF36 blue, epoxy black
Marking:		laser printed product type on top
Mounting instruction:		glue, power strip or plastic screws, on nonmetal objects
Operating Modes:	SLEEP, LOGGING	
Basic Functions:	read UID, programming of sampling rate, limit information, start delay	
Sample Time:	1 sec ... 65535 sec (=18h 12min 15sec) programmable	
Battery:	Li MnO ₂ , 68 mAh	primary battery
Life Time:		up to 2 years, depending on usage
Operation:	RFID/NFC devices for data communication necessary	
Appropriate RFID Reader:	DESKTOPsmart, M30-HEAD reader, POCKETwork, Smart Phones	
Evaluation Software:	TELID®soft NFC, TELID®soft	
Platform:		Android 7, 8 and 9

Types:

Logger type:	temperature	temperature and humidity	temperature-humidity-pressure	temperature-humidity-pressure-shock
Working range	-40°C ... +85°C	0%RH ... 100%RH	-40°C ... +85°C 0%RH ... 100%RH 300hPa ... 1100hPa	-40°C ... +85°C 0%RH ... 100%RH 300hPa ... 1100hPa 0 ... 10g, shock event, no wave record
Resolution	0.1°K	0.1%RH	0.1°K, 0.1%RH, 1.3Pa, 50mg	0.1°K, 0.1%RH, 1.3Pa, 50mg
Accuracy	± 0.3°K (0°C ... +40°C) ± 0.5°K (-40°C ... +85°C)	± 2%RH (20%RH... 80%RH) ± 5%RH (0%RH... 100%RH)	± 0.5°K (25°C), ± 1.0°K (0°C...+65°C) ± 3%RH (20%RH...80%RH) ± 1hPa	± 0.5°K (25°C), ± 1.0°K (0°C...+65°C) ± 3%RH (20%RH...80%RH) ± 1hPa
Max. Samples	2224	1112	741	741
Productcode	14.312.714.00	14.332.714.00	14.392.714.10	14.392.714.01*

*) in development