

PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 382.i

RFID inclination data logger 13.56MHz

- semi passive sensor data logger
- 3D inclination measurement based on earth acceleration
- non flexible hard TAG, package Q54
- mountable on metal or nonmetal objects
- contactless data communication based on ISO14443

RFID Sensor TELID® devices are an integral part of *microsensys* iID® system solution. These devices are very useful for wireless sensor applications in industrial solutions, especially in maintenance processes and in building industry. TELIDs are operating optimal with *microsensys* standard RFID stationary and mobile reader devices.



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this data sheet is subject to change
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TELID382i-03

RFID Technology:	RFID system TELID®300	iID®3000 based on ISO 14443B
Chip Type:	iID-L	closed coupling HF sensor solution
Carrier Frequency:	13.56 MHz	
Communication Rate:	106 kbps	
Communication Distance:	0 ... 20 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, ID-No
Recording Capacity:	256 kbit or 1 Mbit	8 bit per channel and sample
Real Time Clock:		quartz stabilized, synchronisation by HOST
Acceleration Sensor:	MEMS sensor, 3D acceleration (x, y, z-axis)	
Measure Range:	+2.0 g ... -2.0 g	
Frequency Range:	0 ... 10 Hz	
Resolution:	12 bit	theoretical 1 mg
Application:	3D inclination data logging,	preferably for inclination changing measurements
Measure Range:	+45° ... -45°	(+1 g ... -1 g)
Resolution:	theoretical 0.5°	x-y axis sensor
Temperature Sensor:	semiconductor sensor	
Working Temperature:	-40°C ... +85°C	optional
Resolution:	0.5 K	not calibrated
Operating Modes:	SLEEP, ZERO SETING or ACTIVE LOGGING	
Measure Modes:	LOGGING: STOP FULL	Nmax programmable
Basic Functions:	programming of parameters, item information and measure modes set start time, read header, read data memory	
Parameters:	zero reference at installation, calibration data and event limits (optional)	
Sample Time:	1 min ... 59 min, programmable	
Battery:	LiMnO2, 125 mAh	
Life Time:	up to 2 years	depending on using conditions
Working Temperature:	-35°C ... +85°C	
Storage Temperature:	-40°C ... +90°C (short time 100°C)	recommended 25°C
Dimensions:	54 x 40 mm², thickness max. 4.5 mm	
Protection Class:	IP 67	
Marking:	laser printed product type on top, optional unique ID-No	
Mounting Instruction:	adhesive on metal (reduced Comm.Dist.) or nonmetal objects	
Appropriate RFID Reader:	PEN reader	with RS232TTL, USB or Bluetooth
	HEAD reader	with RS232TTL, CAN or USB for industrial application
	POCKETwork	with USB or Bluetooth
Software:	TELID381.i application software for mobile devices	based on TELIDsoft 5.0, Windows

Type :	14.382.110.00	14.382.111.00*	14.382.111.10*	*) in development
Memory Capacity:	256k	1M	1M	bit
Max. 3D-Samples:	approx. 8000	approx. 15000	approx. 1000	
Max. T-Samples:	-	approx. 15000	approx. 1000	
Max. Events:	-	-	approx. 100	