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.

microsensys GmbH
In der Hochstedter Ecke 2
D 99098 Erfurt

TEL +49-361-59874 0
E-MAIL info@microsensys.de
FAX +49-361-59874 17
WEB www.microsensys.de

this data sheet is subject to change
contact microsensys for latest information

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	optional
Working Temperature:	-40°C .... +85°C	
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	