

PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 332-TH

RFID humidity data logger 13.56MHz

- semi passive sensor data logger
- humidity and temperature measurement
- non flexible hard TAG, package Q54S
- 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

microSensys
RFID in motion

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

TELID332-05

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:	1 Mbit EEPROM	read write type endurance >100.000 cycles, data retention > 10 years
Static Memory:		parameters, calibration data, manufacturer OTP, ID-No
Recording Capacity:	up to 12,000 samples	32 bit per data set
Real Time Clock:	quartz stabilized	synchronisation by HOST
Humidity Sensor:	capacitive CMOS sensor with filter cap	
Working Range:	0%RH ... 100%RH	at 0°C +80°C
Resolution:	0.7%RH (8bit ADC)	
Accuracy:	+/- 3.0%RH +/- 7.0%RH	at 15°C ... +55°C and 25%RH ... 85%RH at 0°C ... +85°C and 0%RH ... 100%RH
Temperature Sensor:	semiconductor CMOS sensor	
Working Range:	-40°C ... +100°C	maximal
Resolution:	0.2°K (10bit ADC)	
Accuracy:	+/- 0.5°K +/- 1.0°K	at 0°C ... +60°C at -30°C ... +90°C
Thermal Time Constant:	5 ... 30s	depending on mounting technology
Operating Modes:	SLEEP, 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 calibration data and event limits (optional)
Parameters:		
Sample Time:		1 min ... 59 min, programmable
Battery:	LiMnO2, 125 mAh	
Life Time:	up to 3 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	with integrated filter cap SF2
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 HEAD reader POCKETwork TELIDsoft 5.0	with RS232TTL, USB or Bluetooth with RS232TTL, CAN or USB for industrial application with USB or Bluetooth Microsoft Windows Vista, 7 and 8
Software:		

Type :	14.332.710.00	14.332.710.10*	*) in development
Memory Capacity:	1M	1M	bit
Max. H/T-Samples:	approx. 12000	approx. 10000	
Security Event Sensor:	-	approx. 10 events	