

PRODUCT DATASHEET

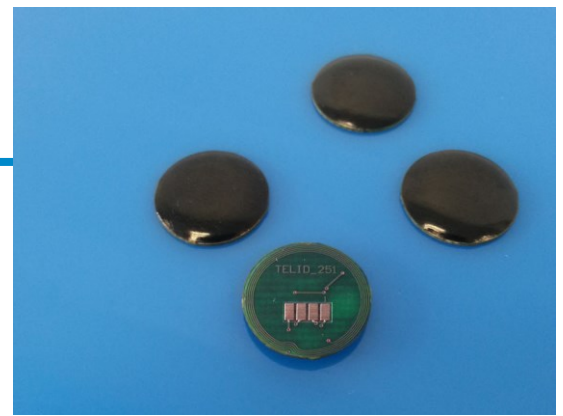
TELID® RFID Sensors

TELID® 251

RFID analog input transponder 13.56MHz

- passive ADC transponder
- contact pads for analog input on back side
- non flexible hard TAG, package D14
- contactless data communication ISO 14443

RFID Sensor TELID® devices are an integral part of *microsensys* iID® system solution. These devices are very useful for wireless sensors applications in industrial solutions, for quality check in food and pharma industry, for temperature check in maintenance processes and transport and logistics. TELIDs are operating optimal with *microsensys* standard RFID reader.



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

TELID251-01

RFID Technology:	RFID system TELID®200	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
Free Memory:	128bit	see version
ADC:	low power, 16 bit analog to digital converter with internal reference	
Working Range:	-2.048 V ... +2.048 V	analog input voltage
Resolution:	16 bit	theoretical 62.5 µV
Input Impedance:	6 MOhm	typical
Sample Rate:	8 sps	ADC supports up to 860 sps
Different Input Circuits:	251.ADC DIFF-INPUT-ADC 251.2R 2 POINT RESISTOR 251.BR FULL BRIGE input contacts as gold pads on device back side	standard only customized only customized
Operating Mode:	PASSIVE SENSOR	
Measure Modes:	ON LINE MEASUREMENT	
Basic Functions:		programming of sensor parameters and data memory commands
Parameters:		calibration data (optional)
Battery:	no battery	
Working Temperature:	-25°C ... +85°C	
Storage Temperature:	-40°C ... +150°C	maximum range
Dimensions:	D 14mm, max. TH 2.0mm (half lens housing)	
Packaging:		epoxy glass fiber enforced (black) gold pads on back side
Marking:		laser printed product type on top, optional unique ID-No
Mounting Instruction:		no using on metal
Appropriate RFID Reader:	M30-HEAD reader PEN reader POCKETwork UNI13 module	with RS232TTL or USB with RS232TTL, USB or Bluetooth with Bluetooth OEM product
Software:	iID driver engine, iID DEMOsoft, TELID application software for Windows PC and mobile devices on inquiry	

Type :	12.251.100	12.251.210*	12.251.101*	*) in development
Package:	half lens	lens, with cable	half lens	
Memory Capacity:	128	128	256k	bit