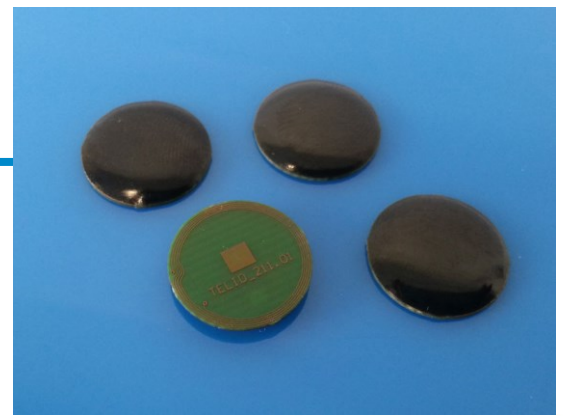# PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 211.01

RFID temperature transponder 13.56MHz

- passive sensor device
- temperature measurement -40°C ... +125°C
- non flexible hard TAG, package D14, on metal possible
- 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.

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

TELID211.01-02

RFID Technology:	RFID system TELID®200 / iID®3000 based on ISO 14443	
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
Object Data Memory:	EEPROM	read write type endurance >100.000 cycles, data retention > 10 years
Static Memory:		parameters, calibration data, manufacturer OTP
Free Memory:		see version
Temperature Sensor:	semiconductor sensor	
Working Temperature:	-40°C .... +140°C	
Resolution:	0.0625°K	
Accuracy:	+/- 0.5°K	at 0°C … +65°C
	+/- 1.0 K	at -40°C … +125°C
Thermal Time Constant:		depending on mounting technology
Operating Mode:	PASSIVE SENSOR	
Measure Modes:	ON LINE MEASUREMENT	
Basic Functions:		programming of sensor parameters and object data memory
Parameters:		calibration data (optional)
Battery:	no battery	
Working Temperature:	-35°C ... +105°C	
Storage Temperature:	-25°C ... +90°C	maximum range
Dimensions:	approx. D 14mm, max. H 2.0mm (half lens housing)	
Packaging:		epoxy glass fiber enforced (black)
Marking:		laser printed product type on top, optional unique ID-No
		optional two color printing
Mounting Instruction:		direct using on metal with type .550 possible
Appropriate RFID Reader:	M30-HEAD reader	with RS232TTL or USB
	PEN reader	with RS232TTL, USB or Bluetooth
	POCKET	with Bluetooth
	UNI13 module	OEM product
	diverse customized modules	for CASIO and PSION devices
Software:	iID driver engine, iID DEMOsoft,	
	TELID application software for Windows PC and mobile devices on inquiry	

Type :	12.211.101	12.211.201	12.211.551	
Package:	epoxy, half lens	epoxy lens	epoxy on metal	
Memory Capacity:	128	128	128	bit