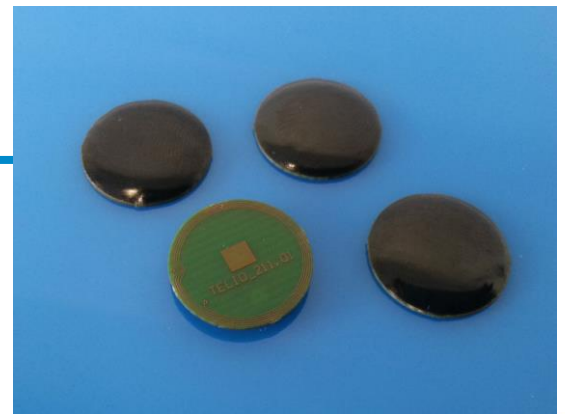# PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 211.03 *preliminary*

RFID temperature transponder 13.56MHz

- passive pressure measurement transponder
- sensor window on top side
- non flexible hard TAG, package D14
- contactless data communication ISO 15693

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   TELID211.03-001

RFID Technology:	RFID system TELID®200	iID®2000 based on ISO 15693
Chip Type:	iID-MA	closed coupling HF sensor solution
Carrier Frequency:	13.56 MHz	
Communication Rate:	26,48 kbps	
Communication Distance:	0 ... 30 mm	depending on reader antenna and environmental conditions
Data Memory:	EEPROM	read write type endurance >100000 cycles, data retention > 10 years
Static Memory:		TID, parameters, calibration data, manufacturer OTP
Memory:	4kbit	3.5kbit for free usages
Temperature Sensor:	semiconductor sensor	parameter of integrated device
Working Range:	-40°C .... +125°C	only sensor, not for total device
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:	AD HOC MEASUREMENT in reader RF field	
Basic Functions:	read/write memory, get sensor value	
Parameters:		calibration data (optional)
Battery:	no battery	
Working Temperature:	-25°C ... +85°C	
Storage Temperature:	-40°C ... +125°C	maximum range
Dimensions:	D 14 mm, max. TH 2.0 mm (half lens housing)	
Packaging:		epoxy glass fiber enforced (black)
		thermal contact on back side
Marking:		laser printed on top
Mounting / Using Instruction:		direct using on metal only with type .550 possible
Appropriate RFID Reader:	M30-HEAD reader	with RS232TTL or USB
	PEN reader	with RS232TTL, USB or Bluetooth
	POCKETwork	with Bluetooth
	UNI13 module	OEM product
	diverse customized modules	for CASIO and PSION industrial handheld
Software:	iID driver engine, iID DEMOsoft for PC / X86/X64 (for mobile devices on inquiry)	

Type :	**12.211.102**	**12.211.102**	**12.211.102**	
Package:	epoxy, half lens	epoxy lens	epoxy on metal	
Memory Capacity:	4k	4k	4k	bit