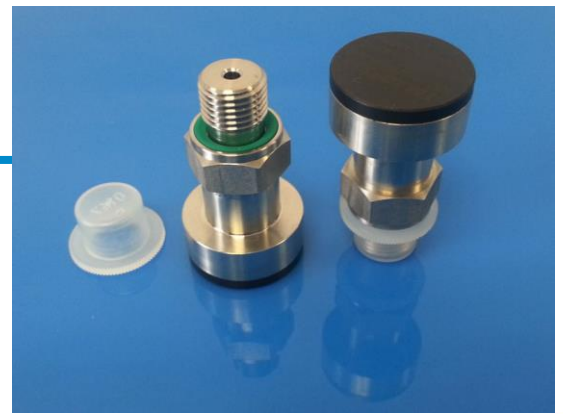# PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 343

RFID pressure data logger 13.56MHz

- semi-passive pressure sensor logger device
- G¼" stainless steel fitting with RFID data logger
- TELID logger with Keller pressure sensor
- 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   TELID343-002.docx

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RFID Technology:	RFID system TELID®300	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 ... 10 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:		max 1 Mbit for product information and measurement data
		up to 12.000 samples (p,T), programmable maximum samples

Pressure Sensor:	piezo-resistive MEMS technology sensor with integrated 16bit $\Delta\Sigma$ ADC	
Working Range:	0 bar … 3 bar	
Resolution:	16 bit	theoretical 0.045 mbar
Accuracy:	+/- 0.15%FS	equates +/- 4.5mbar
Temperature Sensor:	silicon sensor	
Working Range:	-40°C … +110°C	
Resolution:	0.05 °K	
Accuracy:	typ. +/- 2 °K	

Operating Mode:	SLEEP or ACTIVE	
Measure Modes:	STOP FULL or ROLL OVER	active, RTC triggered
Basic Functions:		programming of parameters, item information and modes
		read memory and view memory, read current pressure
Parameters:		start time, pressure limits, sample time (1...256 min), calibration data
Time Base:	quartz RTC	

Battery Life Time:	up to 4 years depending on using conditions

Working Temperature:	-25°C ... +85°C	
Storage Temperature:	-35°C ... +95°C	for long life is recommended 25°C

Dimensions:	G¼" fitting, SW22, max length 48mm	
Case:		stainless steel, PEEK (black) for RFID antenna
Marking:		laser printed, optional with printed UID serial number
Using Instruction:		industrial using
Protection Class:	IP67	

Appropriate RFID Reader:	M30-HEAD reader	with RS232TTL or USB
	PEN reader	with RS232TTL, USB or Bluetooth
	POCKETwork	with Bluetooth

Software:	TELID®soft 5.0 for Windows,
	TELID® application software for Windows PC and mobile devices on inquiry

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Type :	341.483	341.484*	*) in development
Pressure Range:	0 … 3	0 …10	bar
Resolution:	16	16	bit
Absolute Accuracy:	+/-0.15	+/-0.15	%FS