

PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 341 preliminary

RFID pressure data logger 13.56MHz

- semi-active sensor device
- pressure measurement 0.01 bar ... 14 bar
- non flexible hard TAG, package C30, 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 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
WEB www.microsensys.de

microSensys
RFID in motion

This data sheet is subject to change
Contact us for latest information

TELID341-01preli

RFID Technology:	RFID system iID®3000	
Chip Type:	iID-L	closed coupling, 13.56 MHz, based on ISO 14443B
Carrier Frequency:	13.56 MHz	
Communication Distance:	0 ... 5 mm	depending on reader antenna and environmental conditions
Memory:	EEPROM	read write type, endurance >100.000 cycles, data retention > 10 years, up to 8000 samples, programmable maximum samples for energy saving
Static Memory:		parameters, calibration and user OTP possible
Free Memory:		max 256 kbit for product information and measurement data
Clock:	RTC	quartz stabilized, synchronisation by HOST
Pressure Sensor 101:	piezoresistive silicon micromachined sensor, calibrated	
Working Range:	10 mbar ... 1100 mbar, absolute	
Resolution:	0.1 mbar	
Absolute Accuracy:	+/- 1.5 mbar	at +25°C and 750 ... 1100 mbar
Error over Temperature:	+/- 1.0 mbar	at 0°C ... +50°C and 300 ... 1000 mbar
Response Time:	approx. 0.1 s	
Operating Modes:	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
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:	approx D 30 mm, H 15 mm	
Packaging:		stainless steel ring, black EP on top opening for pressure sensor in stainless steel ring sensor protection with silicon gel laser printed on black EP on top
Marking:		
Appropriate RFID Reader:	PEN reader HEAD reader DESKTOP reader CFC reader	with RS232TTL, USB or Bluetooth with RS232, RS485 or USB for industrial application read write device with USB for PDAs or industrial handheld computers
Software:	TELID application software for Windows PC and mobile devices on inquiry	

Type :	341.101*	341.102*	*) in development
Pressure Range:	0.01 ... 1.1	0.1 ... 14	bar
Resolution:	0.1	1.2	mbar
Absolute Accuracy:	+/-1.5	+20/-100 (0 ... 14 bar)	mbar