

PRODUCT DATASHEET

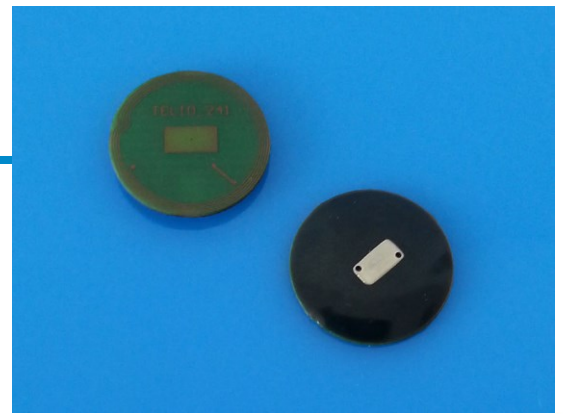
TELID® RFID Sensors

TELID® 241

RFID pressure transponder 13.56MHz

- passive pressure measurement transponder
- sensor window on top 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

TELID241-002

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 >100000 cycles, data retention > 10 years
Static Memory:		parameters, calibration data, manufacturer OTP
Free Memory:	128bit	see version
Pressure Sensor:	piezo-resistive MEMS technology sensor with integrated 24bit $\Delta\Sigma$ ADC	
Working Range:	10 mbar ... 1200 mbar	
Resolution:	24 bit	theoretical 0.024 mbar
Accuracy:	+/- 1.5 mbar	at 25°C, 700 mbar ... 1100 mbar
	+/- 2.5 mbar	at -20°C ... +85°C, 300 mbar ... 1100 mbar
Response Time:	8 ms	
Temperature Sensor:	silicon sensor	
Working Range:	-40°C ... +85°C	
Resolution:	0.01 °K	
Accuracy:	+/- 0.8 °K	at 25°C
	+/- 2.0 °K	-20°C ... +85°C
Response Time:	8 ms	thermal time constant approx.. 10 s
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:	-35°C ... +85°C	
Storage Temperature:	-40°C ... +125°C	maximum range
Dimensions:	D 14mm, max. TH 2.5mm (half lens housing)	
Packaging:		epoxy glass fiber enforced (black)
		thermal contact on back side, pressure sensor on top
Marking:		no marking
Mounting / Using Instruction:		no using on metal, barometric sensor
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 :	12.241.100	12.241.200*	*) in development
Package:	half lens	lens	
Memory Capacity:	128	128	bit