PRODUCT DATASHEET

TELID® RFID Sensors

TELID® 243

RFID pressure transponder 13.56MHz

- passive pressure measurement transponder
- 1/4" stainless steel fitting with RFID antenna
- hard TAG, customized for Keller pressure sensor
- contactless data communication ISO 14443

RFID Sensor TELID® devices are an integral part of microsensys ilD® 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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iID®3000 based on ISO 14443B

closed coupling HF sensor solution

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this data sheet is subject to change contact microsensys for latest information

TELID243-002

RFID system TELID[®]200 RFID Technology: Chip Type: iID-L

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: see version

Pressure Sensor: piezo-resistive MEMS technology sensor with integrated 16bit ΔΣ ADC

Working Range: 0 bar ... 3 bar / 100 bar other ranges see down table Resolution: 16 bit theoretical 0.045 mbar Accuracy: +/- 0.15%FS equates +/- 4.5mbar **Response Time:** min. 50 ms incl. temperature and rfid communication

Temperature Sensor: silicon sensor

Working Range: -40°C ... +110°C 0.05 °K Resolution: Accuracy: typ. +/- 2 °K Response Time: min. 50 ms

incl. pressure and rfid communication

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: 1/4" fitting, SW22, max length 40mm

stainless steel, PEEK (black)for RFID antenna Case: Marking:

no special marking

industrial using

Using Instruction: IP67 **Protection Class:**

Appropriate RFID Reader: M30-HEAD reader with RS232TTL or USB

> PEN reader with RS232TTL, USB or Bluetooth **POCKETwork** with Bluetooth

iID driver engine, iID DEMOsoft for Windows, Software:

TELID application software for Windows PC and mobile devices on inquiry

12.243.439.01 12.243.439.03 12.243.439.04* 12.243.439.* Type: *) in development Pressure Range: 0 ... 3 0 ... 10 0 ... 100 bar 128 256k **Memory Capacity:** 128 128 bit