## TELID®243

**RFID pressure transponder 13.56MHz**
- passive pressure measurement transponder
- ¼" 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 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.

### RFID Technology:
- **TELID®200**
- **iID®3000** based on ISO 14443B
- closed coupling HF sensor solution

### 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:
- 128bit see version

### Pressure Sensor:
- piezo-resistive MEMS technology sensor with integrated 16bit ΔΣ ADC
- other ranges see down table
- theoretical 0.045 mbar
- equates +/- 4.5mbar
- incl. temperature and rfid communication

### Working Range:
- 0 bar ... 3 bar / 100 bar

### Resolution:
- 16 bit

### Accuracy:
- +/- 0.15%FS

### Response Time:
- min. 50 ms

### Temperature Sensor:
- silicon sensor
- incl. pressure and rfid communication

### Working Range:
- -40°C ... +110°C

### Resolution:
- 0.05 °K

### Accuracy:
- typ. +/- 2 °K

### Response Time:
- min. 50 ms

### Operating Mode:
- PASSIVE SENSOR

### Measure Modes:
- ON LINE MEASUREMENT
  - programming of sensor parameters and data memory commands
  - calibration data (optional)

### Battery:
- no battery

### Working Temperature:
- -35°C ... +85°C

### Storage Temperature:
- -40°C ... +125°C maximum range

### Dimensions:
- ¼” fitting, SW22, max length 40mm stainless steel, PEEK (black) for RFID antenna

### Case:
- no special marking industrial using

### Marking:
- no special marking

### 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:
- iID driver engine, iID DEMOsoft for Windows, TELID application software for Windows PC and mobile devices on inquiry

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<tbody>
<tr>
<td>Pressure Range:</td>
<td>0 ... 3</td>
<td>0 ... 10</td>
<td>0 ... 100</td>
<td>...</td>
<td>bar</td>
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<tr>
<td>Memory Capacity:</td>
<td>128</td>
<td>128</td>
<td>128</td>
<td>256k</td>
<td>bit</td>
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