**PRODUCT DATASHEET**

**TELID® RFID Sensors**

**TELID® 315.mini+**

miniaturized RFID temperature data logger for probe monitoring, rechargeable

- semi passive sensor data logger
- measurement of ambient temperature
- hard TAG, EPOXY package
- mountable on nonmetal objects
- HF ISO14443 / NFC compatible data communication

RFID Sensor TELID® devices are an integral part of microsensys iID® system solution. Caused on its small dimension TELID300.mini is suitable for supervision of short time laboratory and production processes.

**Communication System:**
- RF communication:
  - Carrier Frequency: 13.56 MHz
  - Communication Rate: 106 kbps
  - Communication Distance: 0 ... 5 mm depending on reader antenna and environmental conditions

**Sensors:**
- Resolution: Si temperature sensor
- Accuracy: measure environmental temperature 0.1°K ± 0.3°K (0°C ... +40°C)
  - ± 0.5°K (-40°C... +85°C)

**Memory:**
- Content: EEPROM
- Data retention: unique TELID identification number, logging data, free customer memory
- R/W endurance: 10 years
- Data retention: 100,000 cycles
- Logging memory: up to 4KByte

**Environment:**
- Max. Working Temperature: -25°C ... +85°C
- Storage Temperature: -40°C ... +95°C
- Recommended Temperature: 25°C

**Housing:**
- Protection Class: IP67
- Housing Form: lens form or cylinder form
- Mounting instruction: no marking, no special mounting possibilities, usage in analytic probe materials

**Operating Modes:**
- Charge, Logging:
  - Basic Functions:
  - Start Time Delay: 1 sec … 2 min programmable, max. 60 min
  - Sample Time: depending on environmental conditions
  - Measurement Cycle Length: 30 min … 4 h
  - Examples: approx. 1500 measurements @ 2 sec sampling rate
  - approx. 400 measurements @ 30 sec sampling rate

**Rechargeable Battery:**
- Wireless Loading: RFID 13.56 MHz
- Loading Time: approx. 30 min

**Application Software:**
- Evaluation software Android: TELID®soft, Android 5.x, 6.x, 7.x
- Evaluation software Windows: TELID®soft 5 (Windows 7, 8, 10) *

**Recommended Accessories:**
- Smartphone Adapter: TELID® micro carrier
- Tablet/Desktop Communicator: iID® DESKTOPsmart
- Battery Recharging: iID®POCKETwork, iID® PENSolid

<table>
<thead>
<tr>
<th>Types</th>
<th>TELID315.mini+ lens</th>
<th>TELID315.mini+ cylinder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>PU (blue or white color)</td>
<td>PEEK / Epoxy</td>
</tr>
<tr>
<td>Product Code</td>
<td>14.315.204.00</td>
<td>14.315.504.00</td>
</tr>
<tr>
<td>aprr. Dimensions</td>
<td>10 x 7 x 4.5 mm</td>
<td>D 10 mm, TH 3 mm</td>
</tr>
</tbody>
</table>

*) in development or on request

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