## TELID® 332-TH

**RFID humidity data logger 13.56MHz**
- semi passive sensor data logger
- humidity and temperature measurement
- non flexible hard TAG, package Q54S
- mountable on metal or nonmetal objects
- contactless data communication based on ISO14443

RFID Sensor TELID® devices are an integral part of microsensys iID® system solution. These devices are very useful for wireless sensor applications in industrial solutions, especially in maintenance processes and in building industry. TELIDs are operating optimal with microsensys standard RFID stationary and mobile reader devices.

### RFID Technology:
- **Chip Type:** iID-L
- **Carrier Frequency:** 13.56 MHz
- **Communication Rate:** 106 kbps
- **Communication Distance:** 0 ... 20 mm

### Data Memory:
- **Memory Capacity:** 1 Mbit
- **Type:** EEPROM
- **Static Memory:** up to 12,000 samples

### Real Time Clock:
- **Temperature:** quartz stabilized
- **Humidity Sensor:** capacitive CMOS sensor with filter cap
  - **Working Range:** 0%RH ... 100%RH at 0°C ... +80°C
  - **Resolution:** 0.7%RH (8bit ADC)
  - **Accuracy:** +/- 3.0%RH
  - **Temperature Sensor:** semiconductor CMOS sensor
  - **Working Range:** -40°C ... +100°C
  - **Resolution:** 0.2°C (10bit ADC)
  - **Accuracy:** +/- 0.5°C
- **Thermal Time Constant:** 5 ... 30s

### Operating Modes:
- **Basic Functions:** SLEEP, ACTIVE LOGGING
- **Parameters:** Nmax programmable
  - Programming of parameters, item information and measure modes
  - Set start time, read header, read data memory
  - Calibration data and event limits (optional)
- **Sample Time:** 1 min ... 59 min, programmable

### Battery:
- **Life Time:** LiMnO2, 125 mAh
- **Working Temperature:** -35°C ... +85°C
- **Storage Temperature:** -40°C ... +90°C (short time 100°C)

### Dimensions:
- 54 x 40 mm², thickness max. 4.5 mm
- **Protection Class:** IP 67
- **Marking:** Laser printed product type
  - On top
  - Adhesive
  - With integrated filter cap SF2
- **Mounting Instruction:** Adhesive on metal (reduced Comm.Dist.) or nonmetal objects

### Appropriate RFID Reader:
- **Type:** PEN reader
- **Software:** TELIDsoft 5.0

### Type
<table>
<thead>
<tr>
<th>Product</th>
<th>Memory Capacity</th>
<th>Max. H/T-Samples</th>
<th>Security Event Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>TELID® 332-TH</td>
<td>1M</td>
<td>approx. 12000</td>
<td>approx. 10 events</td>
</tr>
<tr>
<td>TELID® 332-TH 10</td>
<td>1M</td>
<td>approx. 10000</td>
<td>approx. 10 events</td>
</tr>
</tbody>
</table>

*) in development

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