RFID temperature data logger 13.56MHz
- semi passive sensor data logger
- 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.

<table>
<thead>
<tr>
<th>RFID Technology:</th>
<th>RFID system TELID®300</th>
<th>iID®3000 based on ISO 14443B closed coupling HF sensor solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip Type:</td>
<td>iID-L</td>
<td></td>
</tr>
<tr>
<td>Carrier Frequency:</td>
<td>13.56 MHz</td>
<td></td>
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<tr>
<td>Communication Rate:</td>
<td>106 kbps</td>
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<tr>
<td>Communication Distance:</td>
<td>0 ... 20 mm</td>
<td>depending on reader antenna and environmental conditions</td>
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</tbody>
</table>

Data Memory:
EEPROM read write type endurance >100.000 cycles, data retention > 10 years

Static Memory:
parameters, calibration data, manufacturer OTP, ID-No

Recording Capacity:
1 Mbit, 16 bit per sample

Real Time Clock:
quartz stabilized synchronisation by HOST

Temperature Sensor:
semiconductor sensor

Operating Modes:
SLEEP, ACTIVE LOGGING

Measure Modes:
LOGGING: STOP FULL or STOP TIME

Basic Functions:
programming of parameters, item information and measure modes

Parameters:
set start time, read data, calibration data, set RF marker

Sample Time:
calibration data and event limits (optional)
1 min … 59 min programmable

Battery:
Li MnO2, 125 mAh

Life Time:
up to 5 years depending on using conditions

Working Temperature:
-25°C ... +80°C

Storage Temperature:
-40°C ... +85°C recommended 25°C

Dimensions:
54 x 40 mm², thickness max. 4.5 mm

Protection Class:
IP 67

Packaging:
Q54S material PA66 GF36 blue, epoxy black

Marking:
laser printed product type on top, optional unique ID-No

Mounting Instruction:
glue, power strip or plastic screws, on metal or nonmetal objects
for data communication don’t use on metal

Appropriate RFID Reader:
PEN reader with RS232TTL, USB or Bluetooth
HEAD reader with RS232TTL, CAN or USB for industrial application
POCKETwork with USB or Bluetooth

Software:
TELIDsoft 5.0 Microsoft Windows Vista, 7 and 8

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*) in development