**TELID® 211.01**

**RFID temperature transponder 13.56MHz**
- passive sensor device
- temperature measurement -40°C ... +125°C
- non flexible hard TAG, package D14, on metal possible
- 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:**
- RFID system TELID®200 / iID®3000 based on ISO 14443
- 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

**Object Data Memory:**
- EEPROM read write type endurance >100.000 cycles, data retention > 10 years
- Static Memory: parameters, calibration data, manufacturer OTP
- Free Memory: see version

**Temperature Sensor:**
- semiconductor sensor
  - Working Temperature: -40°C ... +140°C
  - Resolution: 0.0625°K
  - Accuracy: +/- 0.5°K at 0°C ... +65°C
  - +/- 1.0 K at -40°C ... +125°C
  - Thermal Time Constant: depending on mounting technology

**Operating Mode:**
- PASSIVE SENSOR

**Measure Modes:**
- ON LINE MEASUREMENT

**Basic Functions:**
- programming of sensor parameters and object data memory

**Parameters:**
- calibration data (optional)

**Battery:**
- no battery

**Working Temperature:**
- -35°C ... +105°C

**Storage Temperature:**
- -25°C ... +90°C maximum range

**Dimensions:**
- approx. D 14mm, max. H 2.0mm (half lens housing)

**Packaging:**
- epoxy glass fiber enforced (black)

**Marking:**
- laser printed product type on top, optional unique ID-No
- optional two color printing

**Mounting Instruction:**
- direct using on metal with type .550 possible

**Appropriate RFID Reader:**
- M30-HEAD reader with RS232TTL or USB
- PEN reader with RS232TTL, USB or Bluetooth
- POCKET with Bluetooth
- UNI13 module OEM product
- diverse customized modules for CASIO and PSION devices

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

**Type :**
- 12.211.101
- 12.211.201
- 12.211.551

**Package:**
- epoxy, half lens
- epoxy lens
- epoxy on metal

**Memory Capacity:**
- 128 bit