

### TELID<sup>®</sup>211

### TF 12.211.100, TF 12.211.200 TF 12.211.550

#### passive 13.56 MHz temperature read/write transponder, in mid size lens form

This sensor transponder package is available with different sensor functionality and memory size based on ISO 14443.

TELID<sup>®</sup>2 devices are an integral part of *microsensys* iID<sup>®</sup>3000 system solutions. Lens form transponder devices are very useful for industrial and logistics applications.

*microsensys* offers an attractive component platform for closed coupling RFID solutions.

picture: TELID 12.211.100



#### RFID Technology:

RFID system iID<sup>®</sup> 3000 closed coupling, 13.56 MHz, based on ISO 14443 iID-L

#### Chip Type:

Carrier Frequency: 13.56 MHz

Communication Rate: 106 kbps

Communication Distance: 0 ... 10 mm

dependent on reader antenna and metal environment

#### Memory:

read write type

128 bit or 256 kbit EEPROM endurance >100.000 cycles, data retention >10 years unique ID-No, calibration data and user OTP possible

#### Temperature Sensor:

Working Temperature: semiconductor sensor -35°C .... +85°C

Accuracy: -35°C .... +85°C

0°C .... +70°C

Resolution: 0.1 K

+/- 2.0 K

+/- 0.5 K

#### Measure Mode:

passive (while communication)

#### Basic Function:

measure current temperature, read and write memory

#### Type :

#### Package Type:

#### Thermal Contact:

#### Memory Capacity:

#### Command Length:

#### Communication Distance:

	211.100	211.101	211.111	211.550
Package Type:	plastic	plastic	plastic	plastic on metal
Thermal Contact:	contact plate	contact plate	contact plate	ferrite composite
Memory Capacity:	128 bit	256 kbit	256 kbit	256 kbit
Command Length:	64 Byte	64 Byte	16 Byte	64 Byte
Communication Distance:	6	6	6	3 mm
	measured with type A18 antenna, low power mode			

#### Packaging:

type .100

FR4 substrate, black EP on top

type .200

lens form, black EP both side

type .550

ferrite composite substrate, black EP on top

#### Dimensions:

approx. D 14 mm, max. H 2.0 mm (half lentil case)

type .550: D 15 mm, max. H 2.5 mm (half lentil case)

#### Mounting Instructions:

type .550: direct using on metal possible

#### Storage Temperature:

-45°C ... +125°C

#### Appropriate RFID Reader:

PEN reader

with RS232TTL, USB, CFC or Bluetooth interface,

CFC reader

for PDA with Compact Flash Card interface

HEAD reader

with RS232TTL, RS485 or USB for industrial application

UNI13

RFID read write module, for microsensys OEM partner only

#### HOST Command Set:

see actual API documentation of microsensys TELID driver engine