

TELID[®] 311

TT 14.311.480

13.56 MHz temperature data logger, 256kbit EEPROM transponder memory, in metallic cylinder form

This mini data logger is especially designed as temperature recording system and transponder memory for harsh environmental conditions. It is a transponder component of the TELID[®]xT system solution.

All communications are running over a contactless RFID interface. User friendly Windows software for PC or mobiles devices stands at disposal.



picture: 14.311.482

RFID Technology:

RFID system iID[®] 3000

closed coupling, 13.56 MHz, based on ISO 14443, iID-L

Carrier Frequency: 13.56 MHz

data rate 106 kbps

Communication Distance: 0 ... 5 mm

dependent on reader antenna

Memory:

read write type

max 256 kbit EEPROM, endurance >100.000 cycles

data retention >10 years, ID-No and user OTP possible

up to 8000 samples, programmable maximum samples for energy saving

Real Time Clock:

quartz stabilized, synchronisation by HOST

Temperature Sensor:

semiconductor sensor

Working Temperature: -35°C ... +90°C (125°C)

Resolution: 0.125 K

Accuracy: 0°C ... +60°C

+/- 0.5 K

-35°C ... +85°C

+/- 2.0 K

for higher accuracy 1 or 2 point calibration possible

Storage Temperature:

-40°C ... +95°C (125°C), long time : max. +25°C

Thermal Time Constant:

app. 30 s in water, app. 3 min in air environment (pin type only)

Operation Mode:

Active or Sleep

Measure Mode:

active, RTC triggered

Stop Full or Roll Over

Basic Functions:

programming of parameters, item information and modes

read memory and view memory, read current temperature

Parameters:

start time, temperature limits, sample time (1...256 min), calibration data

Special Features:

internal limit analysis, integrated histogram functionality

Type :

311.482

311.483*)

311.484

Package Type:

metal cylinder

metal cylinder plus pin

metal cylinder extended temp

Thermal Contact:

tag surface

stainless steel pin

tag surface

Working Temperature:

-35°C +90°C

-35°C +90°C

-35°C +125°C

Battery Life Time:

up to 6 years

up to 6 years

up to 3 years depending on appl.

Packaging:

stainless steel ring, black EP on top

Dimensions:

approx. D 27 mm, H 12 mm

Protection Class:

IP 67

Appropriate RFID Reader:

PEN reader
HEAD reader
DESKTOP
CFC reader

with RS232TTL, USB, CFC or Bluetooth interface,
with RS232TTL, RS485 or USB for industrial application
RFID read write device with USB
for PDAs or industrial handheld computers

Software:

drivers and application software for PC and mobile devices

*) in development