

TOKENCUBE™ SENSOR TC-THM



General Description

TokenCube® sensors are a ready-to-use wireless sensor nodes in the size of a key fob. They are compliant to the Bluetooth Low Energy standard using the 2.4 GHz ISM-band. TokenCube® sensors can be used together with smartphones and tablets (iOS 8 and Android 5 or higher) or together with the Token Gateway TC9001 series which connect any TokenCube® to the Internet. TokenCube® Sensor TC-THM is a low-cost, ultra-low-power sensor designed for the Internet of Things.

Model TokenCube TC-THM

- Temperature sensor
- Humidity sensor
- Motion sensor which detects motion above a defined threshold
- Display of battery level
- all broadcasting data in Bluetooth advertising packets

Further Models available

Further TokenCube® Sensors are available for different purposes on request

- Shock Sensor which detects shocks and transmits shock values (g-force)
- Orientation sensor (g-force) – x/y/z
- Light Sensor (Luxmeter)
- CO2 Sensor (Carbon Dioxide)

Features

- Small enclosure: L76 x W28 x H22 mm
- Low-cost device
- Long Battery Life (ultra -low power)
 - ✓ 2x AAA standard cells
 - ✓ Extended battery lifetime with industrial batteries: 1x AA Industrial
- Long range up to 50m depending on receiver's antenna and sight
- Fully qualified Bluetooth® v4.0 low energy with integrated Radio, Link Layer, Host Stack, native service and profiles, optimized solution for peripheral (slave) role operation.

Available Modes of Operation

- Motion Threshold:
 - Sensitive, Medium or Rough
- Standard Advertising Rate: 2000 ms
 - Values from 250ms to 5s possible
- Standard Transmit Power +4dBm
 - Values from +4dBm to -20dBm output power possible

Applications

- Industrial applications
 - Industry 4.0
 - Conditional monitoring
 - Process optimization
 - Process documentation
 - Information provisioning
- Logistics and transport
 - Coolchain management
 - Information provisioning
 - Status check
 - Vehicle detection
- Geofencing, geolocation
- Facility management
- Home automation
- Proximity applications, find me
- Notifications, alerts



Technical Data

Battery Options

- TokenCube TC-THM-Standard
2x AAA cell, live time up to 2 years
- TokenCube TC-THM-Industrial
1x AA industrial cell, live time up to 5 years

Enclosure

L76 x W28 x H22 mm

Certificates

- IP Class: IP54
- IP Class IP64 on request
- ce, Directive 1999/5/EC R&TTE

Further Products

- TokenCube Gateway TC9003 Series
- TokenCube TC-BEACON iBeacon compatible, no sensors
- TokenCube TC-THO for Temperature, Humidity, Orientation
- TokenCube TC-THCO2 for Temperature, Humidity, CO2
- TokenCube TC-THL Temperature, Humidity, Light

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