

T9^{LTE} RHTP

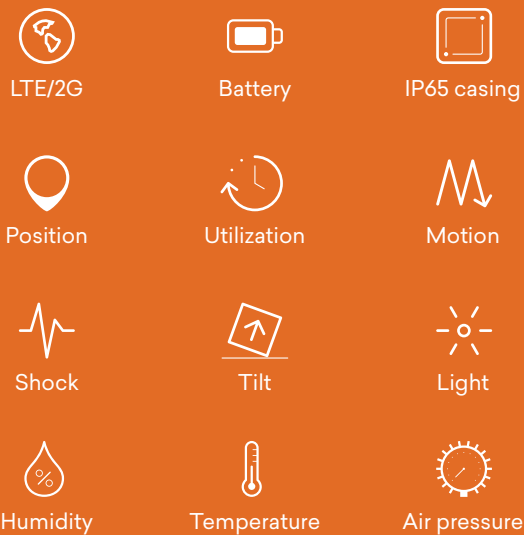
RELATIVE HUMIDITY, TEMPERATURE AND PRESSURE

IoT tracking device

T9 is an IoT device for long-term tracking and data monitoring of assets and equipment globally.

Featuring robust casing with long battery life, it comes with advanced and intelligent sensor technology.

This RHTP edition features high precision humidity, temperature and air pressure monitoring.



T9 is a small IoT tracking device and data logger that offers **asset monitoring and data tracking** of any asset; from non-powered equipment to entire fleets.

Its **robust casing** is suited for all industrial environments and all-weather conditions with an operating temperature range from -30°C to $+85^{\circ}\text{C}$. Battery life-time is typically 7 years based on 1 transmission/day.

The device uses the low power communication technology, **LTE Cat-M1**, to send transmissions to a server. Transmissions can be set at user-fixed intervals and if specified events occur.

A built-in **3-axis accelerometer** offers high-precision data on motion, shock and orientation, while other sensors track light and temperature.

Position data is acquired by **GPS** or via mobile network triangulation if GPS is not available.

This **RHTP** edition features high precision **humidity, temperature and air pressure** monitoring in one device.

This makes it especially suited for use in logistics and supply chain tracking or in connection with any monitoring of **sensitive equipment** to ensure compliance or healthy working conditions.

Data can be viewed on a cloud-based data portal that provides **complete visibility and data analytics**. It provides insights on location, performance, and status of assets and equipment. Data is available on maps, in graphs and in reports. API options are available.

Devices out of GSM coverage will **log data input** until coverage is available again.

Flight mode feature is available to suppress all radio transmissions to ensure safe conditions during flight.

Specifications

| | |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------|
| | Type: T9.420 |
| Battery lifetime | Typical 7000 transmissions based on 1 transmission/day * |
| Sensors | Humidity, Temperature, Air pressure, Position, Motion, Tilt, Light, Utilization, 3-axis Shock (up to 8 g) |
| Data log | Store-and-forward log, default 300 entries of all data incl. position and sensor data |
| Antenna, GPS | Internal |
| Antenna, LTE/2G | Internal |
| Network technology | LTE Cat M1 / GSM EGPRS (850/900/1800/1900MHz) |
| SIM | Embedded, subscription required |
| Server communication | LTE/2G |
| Server protocols | API available upon request |
| Configuration | Via server |
| External tag connectivity | No |
| Housing | PA6 (nylon) potted with epoxy |
| IP rating | IP65 |
| Maximum allowed continuous acceleration | 8 g |
| Dimensions | 112 x 68 x 39 mm |
| Weight | 405 g |
| Battery package | 47 Wh (Primary lithium, encapsulated) |
| Lithium content | 3,8 gram |
| Temperature, operating | -30 °C to +85 °C |
| Temperature, storage | +30 °C max (recommended) |
| ADR | UN3091 |
| US content | 0% |
| ECCN | EAR99 |
| HS (TARIC export) code | 8526912020 |
| Country of origin | Made in Denmark |

Typical number of transmissions

| Network | LTE | LTE/2G ** | 2G |
|----------------------|-------|-----------|------|
| 1 transmission/day | 7000 | 6000 | 5000 |
| 4 transmissions/day | 10000 | 8000 | 7000 |
| 24 transmissions/day | 11000 | 9000 | 8000 |

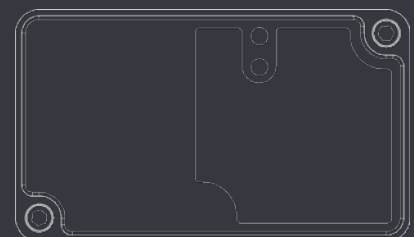
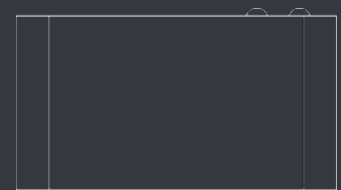
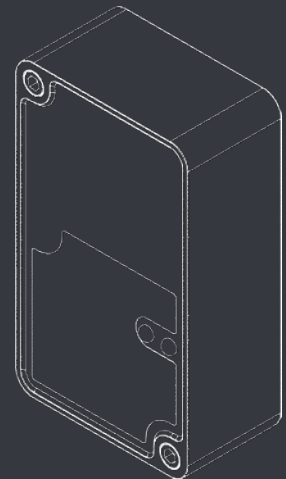
Without GPS, add 10% to above

*) Depending on signal and temperature conditions

**) 50% LTE and 50% 2G

RHTP specifications

| | |
|----------------------------|-------------------------------------------------------------|
| Operating range | -30 to +85 °C 0 to 100% rel. humidity 300 to 1100 hPa |
| Temperature accuracy | +/-0,5 °C @ 25 °C |
| Temperature accuracy | +/-1,5 °C @ full scale |
| Humidity sensor accuracy | +/-3% rel. humidity |
| Humidity sensor hysteresis | +/-1% rel. humidity |
| Air pressure accuracy | ±1,7 @-20 ... 0 °C |
| Air pressure accuracy | ±1,0 @0 ... 65 °C |



Version 6.1 - Subject to change without notice.
This data sheet references to firmware 3.54 or newer.