SolidTrack Field Unit

IoT Data Tracking Device

The SolidTrack Field Unit is a robust wireless tracking device built for industrial environments and all-weather conditions.

It tracks and monitors data from assets such as attachments, transports, machines, vehicles or entire fleets, locally and globally.

Position data is acquired by GPS, or by mobile network triangulation where GPS is not available.

A built-in 3-axis accelerometer provides high-precision motion, shock and orientation data, while further sensors track light and temperature.

The unit uses low-power LTE-M technology to transmit data to a server at user-defined intervals or when specified events occur. Outside network coverage it logs and stores data internally until coverage is restored.

Data is accessed through the SolidTrack platform, which presents asset location, performance and status on maps, in graphs, lists and reports. API access is available on request.

Units are in operation across industries including construction, quarrying, rental fleets and logistics.

Editions

OUR DEFAULT UNIT

Standard Edition

T7.400

- IP69K
- Radio beacon recovery
- External tag support (RHT / RFID)

Standard Edition supports external wireless sensors, such as RHT tags, for additional humidity and temperature tracking of larger assets.

It includes a built-in radio beacon for close-range location recovery when activated.

OPTIONAL

Bluetooth® Edition

T7.410

- IP69K
- Bluetooth® Low Energy 5.0
- Data transfer via app

Bluetooth® Edition adds Bluetooth® connectivity, allowing users to connect to nearby units from the SolidTrack mobile app.

This enables data collection even where regular network coverage is unavailable.

OPTIONAL

RHTP Edition

T7.420

- IP67
- Relative humidity
- Temperature, air pressure

RHTP Edition adds high-precision tracking of relative humidity, temperature and air pressure.

This all-in-one unit suits monitoring installations and sensitive assets, helping ensure compliance and safe working conditions.

Sensors and trackable data

Included in all editions

Utilization data
Analyse running hours to avoid unplanned downtime

Motion
Detect movement and vibration to monitor asset activity

Position
Track, locate and monitor the whereabouts of all assets

Software / API
All data insights are accessible via the SolidTrack platform or API

Shock
Track shock impacts on assets exceeding G-force thresholds

Tilt
Monitor asset tilt beyond a predefined angle

Temperature
Monitor temperature to prevent damage or corrosion

Light
Detect unauthorised light exposure on assets

Specifications

Standard Edition T7.400

UHF radio antenna (internal)	Radio beacon recovery
External tag support	RHT, RFID
IP rating	IP69K

Bluetooth® Edition T7.410

Additional data transfer	Bluetooth® Low Energy
Bluetooth® technology	Bluetooth® 5.0 SIG Declaration ID: D064014
IP rating	IP69K

RHTP Edition T7.420

Additional trackable data	Relative humidity, temperature, air pressure
Sensor operating range	0-100 % RH −30 °C to +85 °C 300-1100 hPa
Humidity sensor accuracy	±3 % RH
Humidity sensor hysteresis	±1 % RH
Temperature accuracy	±0.5 °C at 25 °C ±1.5 °C full scale
Air pressure accuracy	±1.7 hPa at −20 °C to 0 °C ±1.0 hPa at 0 °C to 65 °C
IP rating	IP67

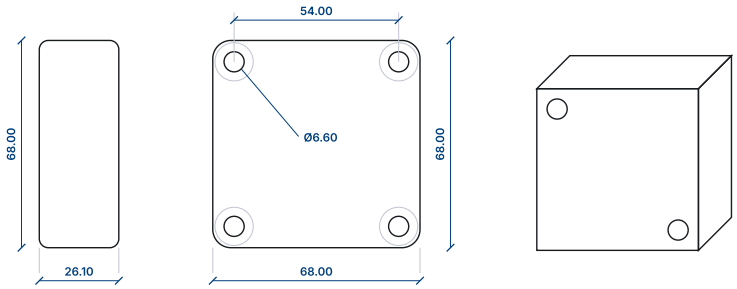
* Depending on signal and temperature conditions.

** The last 2-4 digits vary outside the EU. Find the HS code for your region on the EU Access2Markets site.

All editions

Trackable data	Position, motion, shock, vibration, tilt, rotation, light, temperature (±0.5 °C)
Data storage	Store-and-forward data log; default 300 entries before transmission
Data transmissions	LTE / 2G data to server
Battery lifetime	Typically 4,000 transmissions (1 transmission per day*)
Antennas (internal)	LTE, GPS
Network technology	LTE-M / GSM EGPRS (850 / 900 / 1800 / 1900 MHz)
Positioning technology	GPS, mobile cellular triangulation
SIM	Embedded (subscription required)
Configuration	SolidTrack platform or mobile app (sent via server)
Server protocols	API (available on request)
Motion sensor	3-axis accelerometer (max. continuous acceleration: 8 g)
Housing	PA6 (nylon), moulded with epoxy
Batteries	28 Wh primary lithium (encapsulated)
Lithium content	< 2 g
Dimensions	68 × 68 × 25 mm
Weight	170 g
External magnet force	20 kg (ordered separately)
Operating temperature	−30 °C to +85 °C
Storage temperature	Max. +30 °C (recommended)
ADR	UN3091
ECCN	EAR99
HS (TARIC) code	8526 91 XX XX**
Country of origin	Made in Denmark

Dimensions



Install with screws as shown, or with magnets (sold separately). All measurements in millimetres.