

TotalFinder

UNIVERSAL MONITORING UNIT FOR LONG-TERM TRACKING & MONITORING WITH AN UNPRECEDENTED BATTERY LIFE AND EASY INSTALLATION BY STRONG MAGNETS

USAGE AND CHARACTERISTICS

For monitoring and tracking of railway wagons, containers, heavy machinery and construction equipment, trailers and caravans.

- » Tracking at preselected time interval
- » Monitoring of temperature, acceleration, vibration and tilting
- » G-shock event reporting
- » Bluetooth 5.0 long range for external Sensor (optionally)
- » Easy installation by extremely strong magnets
- » Special holder for secure installation available
- » Charging by USB-C
- » Battery life up to 3 years on a single charge (1 position a day)
- » 4G IoT / 2G

MEASURES AND TRANSMITS

- » Exact position of GNSS satellite system
- » GSM cell ID and signal strength
- » Speed and direction of movement
- » Temperature, altitude
- » Tilting - removal detection
- » Battery voltage and status
- » G-shock event reporting
- » Up to 10 values of external long range BT 5.0 sensors



TYPES AVAILABLE*

| TYPE | GSM | BATTERY | CHARGING | LONG RANGE RECEIVER |
|------------|-------------|--------------------------------|----------|---------------------|
| TF 100 203 | 2G | Li-Ion 15 600 mAh rechargeable | USB-C | - |
| TF 100 003 | 4G IoT / 2G | Li-Ion 15 600 mAh rechargeable | USB-C | - |
| TF 102 004 | 4G IoT / 2G | Li-Ion 21 600 mAh rechargeable | USB-C | BT 5.0 |

*for customized solutions please feel free to contact us

ACCESSORIES

| | |
|------------|-------------------------------------------------------------|
| MD TF1 002 | Robust metal holder for secure fixing (protected by patent) |
| MD 092 001 | Special tool for releasing the unit from holder |
| SA 092 001 | USB charger 2A (including cable) |
| BS 010 390 | BT 5.0 temperature sensor |
| BS 020 130 | BT 5.0 robust temperature sensor |
| BS 030 380 | BT 5.0 access card |
| BS 040 540 | BT 5.0 door sensor |
| SA 050 001 | BLE wireless fuel level sensor |

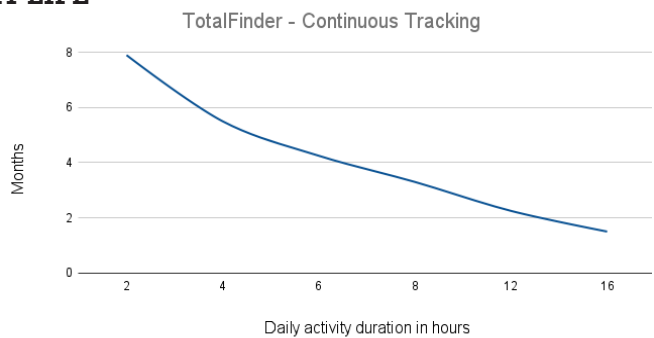
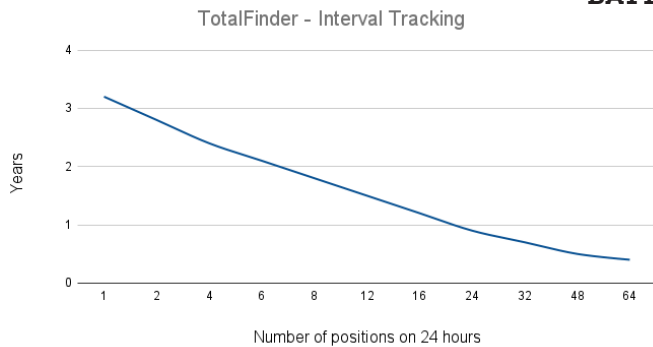


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TECHNICAL PARAMETERS

| | | | |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------|
| GSM | version 2G | 850/900/1800/1900 MHz | |
| | version 4G NB-IoT | B1@2100MHz, B3@1800MHz, B8@900MHz, B5@850MHz, B20@800MHz, B28@700 MHz | |
| | version 4G LTE NB-IoT EGPRS | B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28/B39 - for Cat M1 only @LTE 850/900/1800/1900 @EGPRS | |
| | SIM | Nano Sim, Plug-in 1.8 V | |
| | | SIM Chip | |
| | Types of communication | Calling , SMS, GSM Data, GPRS | |
| | Calls | Alarm call | |
| | SMS | Alarm & Info SMS, SMS commands, requests, SMS configuration | |
| GPRS internet connectivity | Class 12/ static & dynamic IP VPN, UDP protocol / 128bit security encryption key / FW upgrade, configuration settings, on-line value reading, report memory reading, control | | |
| GNSS | GPS , Glonass, Beidou | 33 tracking channels, 99 acquisition channels, 210 PRN channels | |
| ANTENNAS | GPS, GSM, BT 5.0 | Internal | |
| BATTERIES | Type and capacity | Li-Ion 15 600 mAh rechargeable | Li-Ion 21 600 mAh rechargeable |
| CONSUMPTION | Standby | 4 mAh / day | |
| | One Trackpoint + data sending | 1 mAh / each position | |
| | Self-discharge of battery | 14 mAh / day | |
| INPUTS | USB C - covered by rubber cap | Charging /report memory reading/ configuration/FW upgrade ~ sealed optionally | |
| SENSORS | 3 dimensions G sensor | Movement detection / tilt detection / G-shock | |
| | Other sensors | Temperature | |
| WIRELESS EXTERNAL SENSOR INTERFACE | Bluetooth 5.0 long range | Range up to 100m in free space / 30m in buildings Up to 10 sensors | |
| INTERNAL MEMORY | Flash 512 kB | Capacity 5000 events or positions | |
| DIMENSIONS mm | Plastic box | 177 x 85 x 25 mm | |
| | Metallic holder | Length 229.78 / Width 88, Distance of holes 218 / 55, Hole diameter 6.5 | |
| TEMPERATURE RANGE | Li-Ion rechargeable batteries | -25 °C up to +70 °C, charging +5 °C up to +35 °C | |
| PROTECTION CLASS | IP66 | Waterproof | |
| WEIGHT | With batteries | 550 g | |
| STANDARDS | EMC | EN 50121-3-2 ed.4 EN 61000-6-4:2007+A1:2011 EN 55032:2015 EN 55024:2010 | |
| | LVD | EN 62368-1:2014+A11:2017 | |
| | Climatic testing | EN 50155 EN 60068-2-2 EN 60068-2-1 ed.2 EN 60068-2-30 ed. 2 | |
| | Shock and vibration | EN 61373 ed. 2 | |
| | IP code | EN 60529 | |

BATTERY LIFE



Expected conditions: > GPS a GSM signals have no significant obstacles
> Temperature in range from 15°C up to 25°C



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