

# 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 (according to preselected int)
- » 4G LTE Cat1 | 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 Bluetooth® sensors



## TYPES AVAILABLE\*

| TYPE              | GSM              | BATTERY                        | CHARGING | BLUETOOTH     |
|-------------------|------------------|--------------------------------|----------|---------------|
| <b>TF 100 403</b> | 4G LTE Cat1   2G | Li-Ion 15 600 mAh rechargeable | USB-C    | -             |
| <b>TF 102 403</b> | 4G LTE Cat1   2G | Li-Ion 15 600 mAh rechargeable | USB-C    | Bluetooth 5.0 |
| <b>TF 102 404</b> | 4G LTE Cat1   2G | Li-Ion 21 600 mAh rechargeable | USB-C    | Bluetooth 5.0 |

\*for customized solutions please feel free to contact us

## ACCESSORIES

|                   |                                                             |
|-------------------|-------------------------------------------------------------|
| <b>MD TF1 002</b> | Robust metal holder for secure fixing (protected by patent) |
| <b>MD 092 001</b> | Special tool for releasing the unit from holder             |
| <b>SA 092 001</b> | USB charger 2A (including cable)                            |
| <b>BS 115 801</b> | Bluetooth 5.0 Eye Sensor - temperature, humidity            |
| <b>BS 06 10</b>   | Bluetooth 5.0 Door Status Sensor                            |

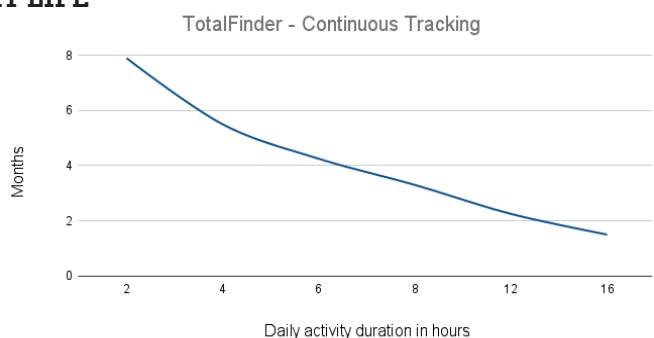
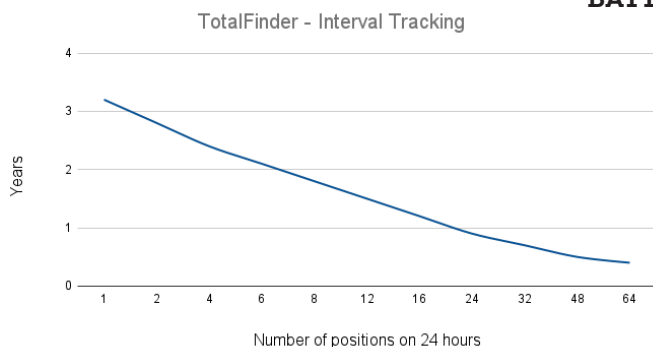


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## TECHNICAL PARAMETERS

|                                           |                                                                                                                                                                              |                                                                               |                                |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------|
| <b>GSM</b>                                | 4G LTE Cat1   2G                                                                                                                                                             | B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B26/B28/B39                             |                                |
|                                           | 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 |                                                                               |                                |
| <b>GNSS</b>                               | GPS , Glonass, Beidou                                                                                                                                                        | 33 tracking channels, 99 acquisition channels, 210 PRN channels               |                                |
| <b>ANTENNAS</b>                           | GPS, GSM, BT 5.0                                                                                                                                                             | Internal                                                                      |                                |
| <b>BATTERIES</b>                          | Type and capacity                                                                                                                                                            | Li-Ion 15 600 mAh rechargeable                                                | Li-Ion 21 600 mAh rechargeable |
| <b>CONSUMPTION</b>                        | Standby                                                                                                                                                                      | 4 mAh / day                                                                   |                                |
|                                           | One Trackpoint + data sending                                                                                                                                                | 1 mAh / each position                                                         |                                |
|                                           | Self-discharge of battery                                                                                                                                                    | 14 mAh / day                                                                  |                                |
| <b>INPUTS</b>                             | USB C - covered by rubber cap                                                                                                                                                | Charging /report memory reading/ configuration/FW upgrade ~ sealed optionally |                                |
| <b>SENSORS</b>                            | 3 dimensions G sensor                                                                                                                                                        | Movement detection / tilt detection / G-shock                                 |                                |
|                                           | Other sensors                                                                                                                                                                | Temperature                                                                   |                                |
| <b>WIRELESS EXTERNAL SENSOR INTERFACE</b> | Bluetooth 5.0 long range                                                                                                                                                     | Range up to 100m in free space / 30m in buildings<br>Up to 10 sensors         |                                |
| <b>INTERNAL MEMORY</b>                    | Flash 512 kB                                                                                                                                                                 | Capacity 5000 events or positions                                             |                                |
| <b>DIMENSIONS mm</b>                      | Plastic box                                                                                                                                                                  | 177 x 85 x 25 mm                                                              |                                |
|                                           | Metallic holder                                                                                                                                                              | Length 229.78 / Width 88, Distance of holes 218 / 55, Hole diameter 6.5       |                                |
| <b>TEMPERATURE RANGE</b>                  | Li-Ion rechargeable batteries                                                                                                                                                | -25 °C up to +70 °C, charging +5 °C up to +35 °C                              |                                |
| <b>PROTECTION CLASS</b>                   | IP66                                                                                                                                                                         | Waterproof                                                                    |                                |
| <b>WEIGHT</b>                             | With batteries                                                                                                                                                               | 550 g                                                                         |                                |
| <b>STANDARDS</b>                          | 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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