

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

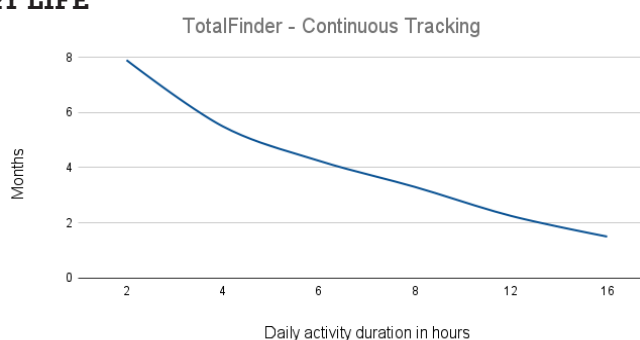
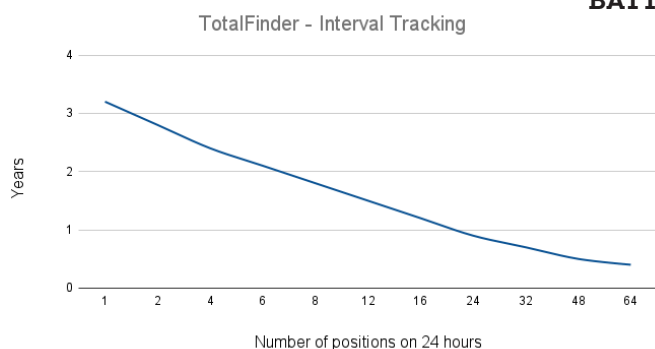


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TECHNICAL PARAMETERS

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