RealTrac Tag

Description and intended use

R**ealTrac Tag** (location tag) is the mobile device allowing a person's positioning indoor and outdoor.

Positioning is performed through measurement of the distances between RealTrac Tag and the access points being the links of the common local positioning system RealTrac mounted indoor or outdoor. The data from RealTrac Tag and access points is processed by control server resulting in high-precision positioning of a person as a certain time.

Capabilities

RealTrac Tag allows not only real-time high-precision positioning of people, but determining of movements, resting, sleeping, and falling down. Besides, it is possible to generate the reports on movement pattern for any time period.

Additionally, the standard delivery set (Mini body) of RealTrac Tag is equipped with alarm feedback button that allows the holder to send an alarm signal to the system operator.

Advantages

RealTrac Tag successfully performs its primary function, namely the precise positioning. In combination with compact dimensions, optional extension of functionality and availability the RealTrac Tag is the optimum and rational solution for configuring of positioning systems at the facilities and in the premises where the positioning devices for large numbers of people are required.

Extended versions (L and XL bodies) of RealTrac Tag could be equipped with integrated vibratory mechanism, alarm LED and mini-speaker allowing for its use for duplex announcements or calls. For instance, such solution will allow monitoring of human functional status. If a person does not move (fallen down or sleeping on the workplace), then after some time the RealTrac Tag will start vibration and generate the acoustic signal, and, if the person fails to push the front-face button within 10 seconds, the RealTrac Tag will send the alarm signal to system operator!

Universal cost-saving solution for positioning and monitoring

Real Time Location System RealTrac

Storage and convenience of operation

RealTrac Tag is produced in stylish modern body, it is extremely compact and convenient for use. There are 3 body makes - Mini, L and XL. Mini body is just 53x42x15 mm. It could be carried as trinket, in the pocket, on sling or belt, and XL device could also be carried on the belt.

Software

Software of RealTrac System allows control over RealTrac Tag's operating parameters (such as frequency of locations estimates) from the workplace of the system administrator.

Battery and recharging

RealTrac Tag is equipped with Li-Ion rechargeable battery. The battery is recharged via mini-USB port. Integrated two-color LED facilitates monitoring of battery charge level.

Specifications

Parameter	RealTrac Tag Mini	RealTrac Tag L	RealTrac Tag XL
Overall dimensions, mm	53x35x15	68x42x24	78x48x24
Weight, g	Not more than 15	Not more than 45	Not more than 95
Bandwidth, GHz	from 2.4 to 2.48		
Operating temperature range, °C	from -10 to +70		
Dust and moisture protection (Ingress Protection)	IP 41		
Operating radius against the access points, m	50		
Positioning accuracy, m	up to 1-2		
Supply voltage, V	5		
Recharge, type	Mini USB		
Battery capacity, mAh	160	900	1400
Battery operation time, when locations are inquired several times per minute, h	72	360	630
Recharge time, h	up to 3	up to 5	up to 5
Programmable button	Yes	Yes	Yes, 2 pcs.
Pressure gauge	Optional	Yes	Yes
Accelerometer	Yes	Yes	Yes
Gyroscope	No	Yes	Yes
Vibration	No	Optional	Yes
Integrated speaker – buzzer	No	Optional	Yes
Belt fixation	No	No	Optional
Wrist fixation	Optional	Optional	Optional