

RealTrac Sentry

Description and intended use

RealTrac Sentry is the mobile digital radio set able to detect its location indoor and outdoor.

RealTrac Sentry allows its holder at any time to communicate to the operator and any other persons simultaneously ("push-to-talk" function), he/she could be heard by everyone with RealTrac Sentry. Additionally, if operator or any other person speaks something to the microphone, then everyone will hear the information. Positioning is performed through measurement of the distances between RealTrac Sentry and the access points being the links of the common local positioning system RealTrac mounted indoor or outdoor. Control server of the system will process the data received from RealTrac Sentry and the access points resulting in a man's real-time positioning fixed to a ground plan or premise layout.



Capabilities

RealTrac Sentry operates not only as a radio set. It is able to provide stable voice communication and positioning even in closed or isolated premises where the usual radio communication does not operate. It is implemented due to the fact that the access points could operate even as the repeaters, namely signal re-transmitters.

Voice signal and data transmission is implemented via the digital channel, protected against listening and jamming, contributing to the communication quality and confidentiality.

Additionally, it is possible to connect the active communication channel from RealTrac Sentry to a stationary office phone system.

RealTrac Sentry allows not only precise real-time positioning of any persons, but monitoring the nature of

movements (hiking, car driving, or a person stands still, fell down and rapidly rises up, the device is out of operation or abandoned somewhere, etc.). Flexible reporting system allows tracking of the whole history of a man's movements within the set time period.

RealTrac Sentry is equipped with integrated accelerometer, gyroscope and pressure gauge. Pressure gauge allows tracking of a person's movements by height. Accelerometer and gyroscope allow not only space positioning of a person, but monitoring of its operating condition. Operator is able to monitor a person's movements in real time mode – either such person moves or continuously stays still, what is the nature of movements – normal or sharp, impulsive. And in case of any abnormal actions operator is able to communicate to the device holder by voice!

**Universal solution for voice communication,
positioning and monitoring**

Advantages

RealTrac Sentry is the compact digital radio set allowing not only multiple digital communication, but real-time monitoring and supervision of man's location, as well as generation of movement statistics within any time period. In combination with compact dimensions, shock protection, dust and moisture protection the RealTrac Sentry is the optimum solution for configuring of positioning systems at any large objects and industrial facilities where communication between people and their movement monitoring, are required.



Specifications

Parameter	RealTrac Sentry
Overall dimensions, mm	203x48x62.5
Weight, g	200
Bandwidth, GHz	2.4 – 2.48
Operating temperature range, °C	0 – 60
Dust and moisture protection (Ingress Protection)	IP 65
Operating radius against the access points, m	Up to 500
Positioning accuracy, m	Up to 1-2
Supply voltage, V	5 – 14 ±10%
Battery capacity, mAh	1800
Battery operation time, when location is inquired several times per minute, h	168
Recharge time, h	До 6
Recharge, type	Recharger (docking station)
Recharger connection	100 – 220 V
Integrated speaker	Yes
Integrated microphone	Yes
Pressure gauge	Yes
Accelerometer	Yes
Gyroscope	Yes
Acoustic signal (buzzer)	Yes

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