

hermesTRX Positioning System

Indoor and Outdoor Positioning System

There is an increasing demand to provide accountability and traceability in the supervision of routine security tasks. Based upon our hermesTRX MOTOTRBO™ fleet management system, such accountability and traceability can be provided both outdoors and in indoor environments. Not only does this solution provide positioning, but it can also be utilized to provide man down functionality further enhancing the safety of the workforce.

Indoor Tracking compliments Wide Area Tracking

Indoor tracking is accomplished by the installation of a number of beacons throughout the various areas of a building or large complex. The hermes beacons broadcast a unique 'signature' up to a distance of approximately 100 feet around the beacon. Fitted inside the MOTOTRBO radio



is a hermes transponder indoor option board, which automatically picks-up the beacon's signature as it moves around the complex. The hermes beacons provide radio coverage which ranges from a few feet up to 100 feet. The output power can be adjusted as necessary

to define the required coverage area.

The hermes transponder option board automatically instructs the radio to send the beacon ID to the hermesTRX dispatch station where the location of the subscriber is updated on the screen. In the event of an emergency, the location of the 'downed' person will be displayed in red on the screen and an audio alert will be signalled to the dispatcher.

Patrol Management

By placing beacons close to the entry points of buildings, the hermes beacon is ideally suited to provide verification of who entered or exited the building. In combination with the built-in GPS module in the MOTOTRBO™ radios, personnel can be tracked both in outside and inside environments.

Map Interface

The hermesTRX has an map interface, to enable the upload of building/complex floor plans. The system admin can then place the beacons on the floor plan by a few simple mouse clicks. Also if a complex has multiple sites or multiple floor plans, a dispatcher can simply right click on the subscriber stack and request "show on map" and hermesTRX will jump to the floor plan that particular subscriber is currently on.

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The Beacons

The range of the hermesTRX beacons can be adjusted to provide coverage of just a few feet up to a range of 100

feet. Depending on the set-up requirements, the range is adjusted specific to the particular application. The beacons are IP67 rated and can be used for indoor and outdoor operation. The

internal battery has an expected lifespan of up to 3 years. To ensure that a beacon does not fail due to low battery power, the Beacon sends an automatic warning via MOTOTRBO™ indicating that the battery is reaching end of life.

Technical Data

Beacons

Frequency US 916.50 MHz/EMEA 868,35 MHz

Transmitting power $0.1 \sim 0.75$ mW Type Aproval FCC 15.249

ETSI I-ETS 300 220

Temperature range -13°F ~ 150°F/-25°C ~ 60°C

Environmental IP67

Battery life Li/SOCI2 19000mAh 3 Years*

 $\ensuremath{^{*}}$ Two transmissions per second and highest transmit power level

Dimensions/ weight 4.45 x 3.15 x 2.44 inch / 9.9 oz

120 x 80 x 55 mm / 250g

Indoor Option Board

Radio Compatibility: All MOTOTRBO™ portables except SL Emergency Types: Man down,no movement,telemetry

hermesTRX Specification

- Indoor (Beacons) and Outdoor (GPS) Positioning
- Built-in Web Server for Browser based Operation
- Flexible Building/Floor Plan import (JPEG, PNG, etc.)
- Reverse Geocoding enables the conversion of GPS coordinates into street addresses incl. multiple Geo-Fences alarms
- Flexible Mapping Engine provides the option of choosing OpenStreetMap, ESRI, ArcGIS, National Geographic or Google™ Earth
- Compatible with Conventional, IP Site Connect, Capacity Plus, and Linked Capacity Plus and MNIS
- Compact Dimensions (WxHxD): 7.56 x 2.44 x 8.27 in 192 x 62 x 210 mm