

CASON

Metropolis

DW 318 MXVH

PERSONAL SECURITY AND COMMUNICATION DEVICE

The Metropolis is a small and sophisticated real-time GPS tracker for personal security and mobile workforce management applications. With a footprint scarcely larger than a credit card, the Metropolis packs a surprising number of features into a very small space: precise altitude measurement, panic alarms, voice calling, AGPS, and full integration with the DIWICON Silver Sky tracking and reporting application. For tracking people working in metropolitan areas where accurate indoor altitude and quick location time are critical.

CHARACTERISTICS

- Short TTFF (Time To First Fix) GPS receiver
- Assisted GPS satellite positioning
- GSM/GPRS communication
- Dual SIM cards
- Emergency panic button
- Controllable voice calling
- Barometric altimeter

SPECIAL CHARACTERISTICS

- High sensitivity GPS receiver
- Integrated non volatile memory
- NMEA connection for navigation systems
- Integrated motion sensor
- Integrated high capacity battery
- Remote software update
- Low power consumption

PORTS

- Multi-functional Mini USB port
- Battery charger
- NMEA port
- Local configuration

ATTRACTIVE DESIGN

- Light, compact, pocket sized
- Operational temperature range: -20°C to +60°C

FUNCTIONS

- Motion sensor to help reduce power consumption
- GPRS based TCP/IP communication with central data-base
- Configuration via web based interface
- Long operation time (up to 72 hours)



TECHNICAL DATA

Power:	Built in rechargeable 3.7 V DC Li Ion battery
Input power for charging battery:	5 V DC mini USB
Operating temperature:	- 20°C to +60°C
Storage temperature:	- 40°C to +80°C
Relative humidity:	5% to 95% (non condensed)
Vibration:	<15 Hz, deviation ±2.5 mm / 15 Hz - 150 Hz, 2.1 g
Dimensions (L x W x H):	90 x 20 x 60 mm
Weight:	75 g

GPS RECEIVER CHARACTERISTICS

Channels:	16
Receiver sensitivity:	158 dBm
Position refresh rate:	4 Hz

µ-blox Neo-4S Supersense ANTARIS 4 chipset
with AGPS support

OPERATIONAL DESCRIPTION

APPLICATIONS

- Personal tracking
- Security applications (emergency signal, localization)
- Vehicle tracking
- Freight delivery tracking

BASIC FUNCTIONS

The device's basic functions are the automatic communication of location data, alarm signals, speed, height, condition, and other data to a central database and application server. With the built-in microphone and speaker, the DW 318 MXVH supports voice communication for specialized security applications and remote field reporting.

OPERATION

When charged and switched on, the unit will wake up the GPS receiver and establish a GPRS connection with the server. At the same time it registers with the central database, and receives AGPS data to accelerate the time needed to calculate its position. The height data measured by the device is useful primarily where knowing the exact height can be critical to locating someone in a tall building.

With alternating redundancy, network availability can be improved by using two SIM cards from different GSM operators. If a connection to the server is not available over one network the DW 318 MXVH will automatically begin using the alternate network.

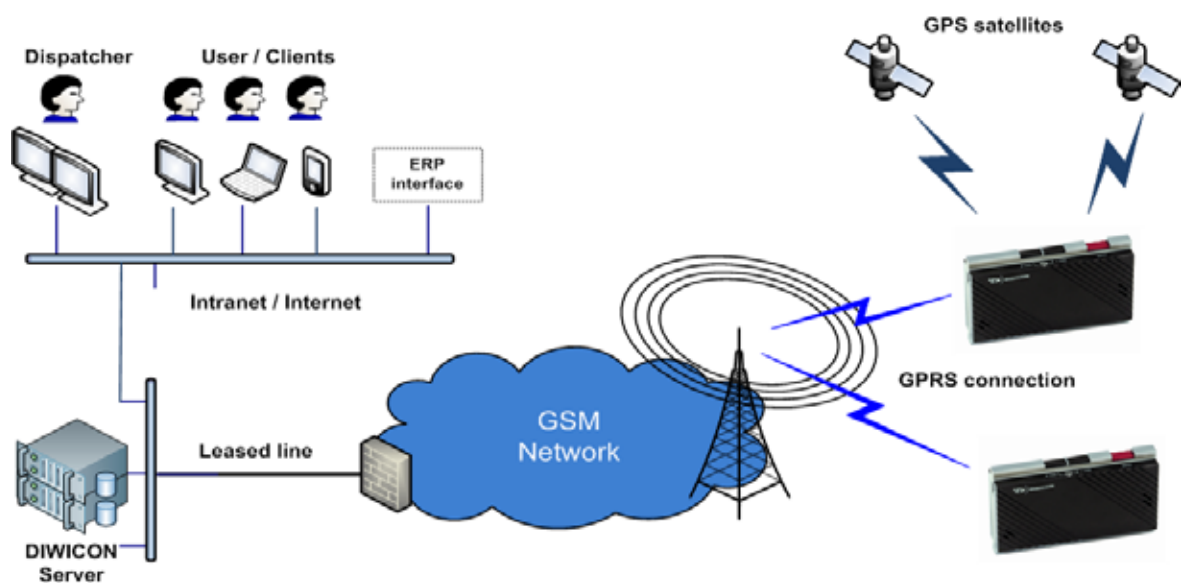
To optimize tracking and power consumption, a built in motion sensor detects when the unit is not in motion and automatically switches to standby mode after a pre-configured period of time.

The sensitivity of the motion sensor can be adjusted. Power consumption in standby mode is extremely low, eliminating the need to switch the device off when not in use. When the device begins to move again, object tracking automatically resumes.

When used for security applications the buttons are used to send status information to the center. The function buttons give simple access to several functions.

SETTINGS

The operational parameter settings are easily adjusted via the web interface of the central server. These pages allow for adjustment of the network settings, the tracking sensitivity, the motion sensor sensitivity, stand by mode timing, and signal button functions.



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