



Navigil 580 Safety Watch for Senior Care

Stylish telecare wristwatch for preventive care and proactive wellness monitoring



- **LTE phone in an analog wristwatch**
- **Wearer activity tracking**
- **Wellness data tracking and analysis**
 - **Sleep quality tracking**
 - **Single button SOS call**
 - **GNSS location reports**
 - **Very long battery life**

The NAVIGIL 580 wristwatch has been designed for persons who wish to stay active and keep track of their wellness. The device display provides users with real-time feedback on their activity progress and wellness status. Weekly and monthly activity achievements can be monitored via the Navigil Service, accessible through a web browser.

Detect changes in level of activity and routines

Changes in daily activity levels and wellness data trends are continuously monitored, enabling early detection and preventive actions before a potential deterioration in the wearer's condition. The analysis identifies whether the wearer is very active, active, or inactive, and provides location information together with long-term wellness trends.

Activity data analytics


Navigil Service has AI (artificial intelligence) features that can be used to analyse the activity, wellness and location data. The analysis reports can be used to identify persons whose level of activity or daily routines are changing. Typically short term changes such as poor quality of sleep, gradually later start of the day and dramatical changes in daily level of activity are clear indicators of change in wearer's wellness. Long-term gradual declines may signal emerging concerns.

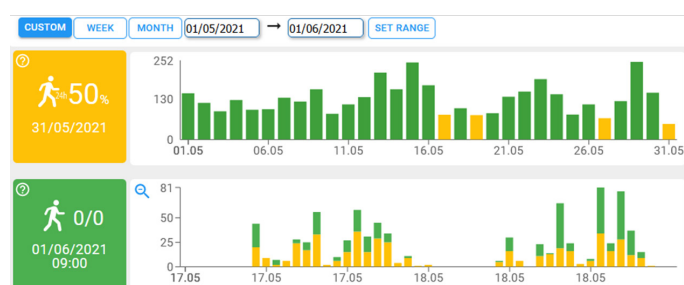
Early identification of these changes supports preventive actions, helping maintain quality of life and reducing pressure on social and healthcare services.

Easy to deploy

Navigil 580 is delivered with an eSIM. After selecting the appropriate wearer profile and defining the phone numbers, the device is ready for use. Profiles are available for different types of wearers, with the interface tailored to the user's dexterity and capabilities. All profiles are enabled to receive phone calls.

Navigil Service includes emergency call and notification routing services, as well as e-mail notifications for alarms and warnings. Due to advanced power saving modes of the hardware and intelligent power management, Navigil 580 can operate up to two weeks on a single charge while being always registered to the mobile network and sending periodic reports.

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|---|----------------------------|---|
| Mobile communication | Modem type | LTE Cat-M1 modem compatible with bands in Europe, North America and Japan |
| | Communication | UDP, VoIP |
| GPS | Receiver type | GPS receiver |
| | Sensitivity | GPS receiver acquisition up to -148 dBm, navigation up to -162 dBm |
| | A-GPS | A-GPS assistance |
| | Tracking | Emergency, adaptive power saving bread crum trail, route traveled, alarm event location |
| Short range communication | BLE | Bluetooth Low Energy communication with beacons |
| Audio | Microphone / speaker | Adjustable volume control |
| User interface | Wearer profiles | Auto, easy, full and tracking profiles, custom profiles on request |
| | Adjustable UI | Selected profile enables/disables UI features |
| | Watch | Analog watch, two software controlled hands |
| | Buttons | Crown, Emergency call, two keys (up/down) |
| | LEDs | 2 user interface / status LEDs |
| | Other | Two row OLED display, speaker, microphone, haptic feedback |
| Sensors | Onboard | 3D accelerometer, optical sensing for resting HR/HRV/respiratory |
| Battery | Li-ion | 500 mAh |
| Operation time | Phone always on | Up to two weeks, depending on used profile and conditions |
| | Phone on when required | Up to four weeks, depending on used profile and conditions |
| Software features | Voice communication | VoIP with secure interconnect to phone networks |
|  | Data communication | Encrypted, resilient with message buffering on flash |
| | Over-the-air updates | Configuration, parameters, safe zone, firmware and boot loader |
| | Safe zone functionality | Polygon or circle safe zones with validity time attributes |
| | User initiated phone calls | To alarm receiving centre and up to 8 speed dial numbers |
| | Receiving phone calls | Automatically or by user accepted calls, white list access control |
| | Alarms | Battery critical, battery low, no movement, fall, home exit, safe zone |
| | Activity statistics | Wearer statistics including duration of very active, active, little movement, beacon area, out of home periods |
| | Wellness data tracking | Resting heart rate, resting HRV and resting respiratory rate statistics with trend analysis |
| | Event reports | Periodic status, help request call, home beacon, activity statistics, battery status and charging reports, location reports |
| Temperature range | Operation | Use: -20°C – +45°C, charging 0°C – +40°C |
| Certifications | | RoHS, CE, 2014/53/EC (RED), FCC, PTCRB, AT&T |
| Available versions | Navigil 580 | Europe, North America, Japan versions, wristwatch and strap designs |
| Enclosure | Navigil 580 | IP67 proof, standard strap, 22 mm interface |
| Dimensions | Navigil 580 | Diameter 46 mm, thickness 14 mm, weight 46 gr. (normal strap) |
| Beacons | Battery beacons | For indoor location and statistics on wearer's daily routines. |



Key features are:

- Stylish showerproof analog watch
- Activity and wellness data tracking with mobile call function
- Indoor beacon and outdoor GPS location