



## Navigil 580 Mobile Wellness Wristwatch

*Stylish wellness tracker and SOS phone in a wristwatch!*



**NAVIGIL 580** wristwatch has been designed for persons who wish to stay active and keep track of their wellness. Navigil 580 display shows the level of achievement of the daily activity target and wellness data values to the wearer. Weekly and monthly achievement can be monitored in the Navigil Service in a web browser or in an App for iOS and Android.

### Detect changes in level of activity and routines

The wellness monitoring changes in the daily activity level and wellness data trends can be detected and preventive actions can be taken prior to the deterioration of condition. The analysis shows when the wearer is in a very active, active or non-active state in addition to the location data and wellness data 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

- **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**


daily level of activity are clear indicators of change in wearer's wellness. Similarly gradual changes for the worse over a longer period of time indicate changes in wellness. Early detection of changes enable preventive care actions to be taken maintaining good quality of life while saving billions of euros in social and health care costs.

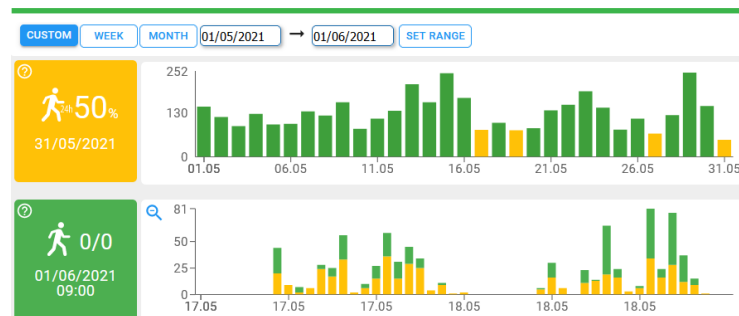
### Easy to deploy

Navigil 580 comes with a SIM card pre-installed - simply select appropriate wearer profile and define phone numbers and Navigil 580 is ready to go. Navigil 580 has profiles for various types of wearers. Richness of the user interface in each profile is matched to the dexterity and capabilities of the wearer. All profiles are enabled to receive phone calls. Navigil Service includes emergency call and notification routing services in addition to SMS, e-mail and push notifications to App 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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*Industry benchmark footprint and functionality*

<b>Mobile comms</b>	Modem type	LTE Cat-M1 modem supporting bands used in Europe, North America and Japan
	Communication	UDP, VoIP
<b>GNSS</b>	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
<b>Short range comms</b>	BLE	Bluetooth Low Energy communication with beacons
<b>Audio</b>	Microphone / speaker	Adjustable volume control
<b>User interface</b>	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
<b>Sensors</b>	Onboard	3D accelerometer, optical sensing for resting HR/HRV/respiratory
<b>Battery</b>	Li-ion	500 mAh
<b>Operation time</b>	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
<b>Software features</b>	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
<b>Temperature range</b>	Operation	Use: -20°C – +45°C, charging 0°C – +40°C
<b>Certifications</b>		RoHS, CE, 2014/53/EC (RED), FCC, PTCRB, AT&T
<b>Available versions</b>	Navigil 580	Europe, North America, Japan versions, wristwatch and strap designs
<b>Enclosure</b>	Navigil 580	IP67 proof, standard strap, 22 mm interface
<b>Dimensions</b>	Navigil 580	Diameter 46 mm, thickness 14 mm, weight 46 gr. (normal strap)
<b>Beacons</b>	Battery beacons	For indoor location and statistics on wearer's daily routines.



### Key features are:

- Stylish shower proof analog watch
- Activity and wellness data tracker with mobile call function
- Indoor beacon and outdoor GNSS location