



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 wellbeing 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

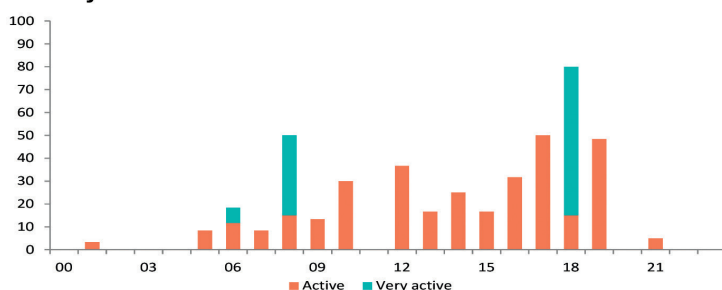
Navigil 580 comes with a SIM card pre-installed - simply select appropriate wearer profile and define phone numbers and Navigil 580 is ready to go. Navigil 580 has profiles for various types of wearers. Richness of the user interface in each profile is matched to the dexterity and capabilities of the 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 four 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

Mobile comms	Modem type	LTE Cat-M1 modem supporting low bands B5/B8/B12/B13/B14/B17/B18/B19/B20/B26/B28 and mid bands B1/B2/B3/B4/B25/B39/B66
	Communication	FTP, UDP, TCP, VoIP
GNSS	Receiver type	GPS/GLONASS/Galileo/BeiDou receiver
	Sensitivity	Acquisition -148 dBm, navigation -162 dBm
	A-GPS	A-GPS assistance (up to 28 days)
Short range comms	BLE	Bluetooth Low Energy communication with beacons
MCU	Processor	ARM Cortex-M4, 1.024 kbytes (total code memory)
	RAM & flash memory	128 kbytes (total RAM), 16 Mbytes (total data flash)
Audio	Microphone / speaker	Adjustable volume control
User interface	Wearer profiles	Auto, easy, full and tracking profiles
	Adjustable UI	Selected profile enables/disables UI features
	Watch	Analog watch, two software controlled hands
	Buttons	Crown, Emergency call, two soft key buttons
	LEDs	2 user interface / status LEDs
	Other	Two row OLED display, speaker, microphone, haptic feedback
	Sensors	Onboard
Battery	Li-ion	500 mAh
Operation time	Phone always on	Up to four weeks, depending on used profile and conditions
	Phone on when required	Up to two months, depending on used profile and conditions
Software features	Voice communication	VoIP with secure interconnect to phone networks
	Data communication	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
	Activity statistics	Wearer statistics including duration of very active, active, little movement, beacon area, out of home periods
	Wellness data tracking	Resting heart rate, HRV and respiration statistics with trend analysis, circadian cycle tracking, go-to-sleep prompts and sleep/stress 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 - +60°C, charging 0°C - +45°C
Certifications		RoHS, CE, 2014/53/EC (RED)
Available versions	Navigil 580	EU, US, Asia LTE bands, several wristwatch and strap designs
Enclosure	Navigil 580	IP67 and shower proof, standard strap, 22 mm interface
Dimensions	Navigil 580	Diameter 46 mm, thickness 13.9 mm, weight 45 gr. (normal strap)
Beacons	Battery beacons	For indoor location and statistics on wearer's daily routines.

Activity



Key features are:

- Stylish shower proof analog watch
- Activity tracker with mobile call function
- AI activity and vital sign analytics
- Indoor beacon and outdoor GNSS location