

TWIG One is a personal alarm device optimized for lone worker safety in noisy and hazardous industrial environments. The essential lone worker protection functions, powerful loudspeaker, robust design, preprogrammable device keys, configurable user interface, compatible accessories, scalable functions and easy integration with various monitoring systems make it a serious choice for the requirements of industry.



Lone worker protection functions

- · Automatic ManDowndetection on fall, tilt or impact
- Device and server based Amber alert
- Distinct and tactile SOSkeyfor panic situations
- · 2-way hands-free voice calls
- SOScycle with 10 preprogrammable numbers
- Tracking and locating indoors and outdoors
- Attendance monitoring with NFCtags
- Short cut dial keys



Effective communication in emergency

- 2G/3G/4G*
- · Interactive on-screen messages
- Preprogrammed one-touch status messages
- One-touch voice calls
- Powerful speakerphone
- VolP calls and data transfer via Wi-Fi*



Sustainable product life-cycle

- · Backwards compatible with previous TWIGdevices
- Improved device maintenance
- Engineered and manufactured fully in-house



Hybrid indoor / outdoor location

- Satellite positioning with 3-constellation GNSS
- TWIGPoint AGNSSservice for faster location fix
- Hybrid indoor location with TWIGSRD,Wi-Fi and Bluetooth Low Energy (BLE) beacons (SRD3 device option)
- TWIGPoint Netloc service for public space location (cellular network + free Wi-Fi base stations)
- TWIGPoint Netloc service for on-site location (TWIGSRDbeacons
- + commercial Wi-Fi base stations + BLE beacons)



Robust and ergonomic

- User Interface with configurable menu and function keys
- · Slim, light and user-friendly
- · Easyto wear with belt clip
- Robust nano SIM card tray



Remote device management

- TWIGPoint Remote Configurator
- Savestime and money in customer support
- Firmware over the air (FOTA)
- · Access with TWIGPoint SPweb account

Lone worker safety

Duty of care requires employers to give lone workers means to alert help. Depending on risk assessment, a dedicated alarm device may be required. An automatic ManDown alarm is sent when device user falls or is not moving. When entering a risky situation, enhanced monitoring can be requested with Amber alert. In absence of mobile network connection, TWIG One can trigger alert via Wi-Fi*. Data transfer via Wi-Fi is available only with SRD3 option of latest device versions.

Scalable for your needs

TWIGOnecan be widely adjusted to specific needs by selecting only the needed options and functionalities and by configuring it for specific lone worker situations.

With remote configuration possibility TWIG One is fast to deploy and flexible to operate. It is also USB programmable, either manually or from file.

Configurable UI and keypad

The 4-digit keypad enables fast control of Amber alert and Mandown functions. Configurable menu key and function keys enlarge device deployment options.

Power for noisy environments

Integrated high-power speaker-phone boosts twoway voice communications. Powerful vibrating alarm and alarm tones help sensing pre-alarms and incoming communications.

Indoor positioning

Lack of satellite connection and the requested accuracy of indoor location require a different solution for indoor positioning.

With the SRD3 option the TWIG One can be located indoors with compatible TWIG SRD beacons, Bluetooth Low Energy beacons or Wi-Fi base stations installed in the building.

Attendance monitoring with NFC

The NFC Reader of TWIG One registers attendance by reading NFC tags.

Alarms monitoring and tracking

TWIG Integrator Kit resources enable integrating TWIGdevices with alarm receiving centre (ARC).

Optionally the TWIG Point Monitor cloud service provides a turn-key solution for alarms monitoring and tracking.

Alarms and reports can also be received on smartphone as SMSwith web map link.

TWIG One Technical Specification (TLP53EU)

Compatibility and communication

- Communicates with all systems using MPTP (Mobile Phone Telematics Protocol) both SMSand data (IP).
- Tracking and alert messagesinclude information on satellite positioning, TWIGSRDbeacons, speed, heading and battery charge.

Key telematics functions

- · Manual alert through SOSkey
- Mandown alarm* with 4 automatic alert triggers: device orientation, non-movement, impact and free fall
- Two-way voice over 4G/3G/GSM/Wi-Fi with speaker
- VoIP calls and data transfer via Wi-Fi* (VoIP calls via 3rd party application, support only 2.4 GHzWi-Fi network)
- · Interactive on-screen messages
- GNSSsatellite positioning
- TWIGBeacon SRD/ Wi-Fi / BLE location*
- Geofence

Key technical features

- GSM:900/1800 MHz
- WCDMA: Bd.1 (2100MHz)/Bd.3 (1800MHz)/Bd.5 (850MHz)/Bd.8 (900MHz)
- LTE-FDD:Bd.1 (2100MHz)/Bd.3 (1800MHz)/ Bd.5 (850MHz)/Bd.7 (2600MHz)/Bd.8 (900MHz)/ Bd.20 (800MHz)/Bd.28 (700MHz)
- LTE-TDD:Bd.38 (2600MHz)/Bd.40 (2300MHz)
- Built-in GSM, SRD*, GNSS, WiFi*, BLE*, NFC* antennas
- Speakerphone with 2 microphones
- · Powerful vibrator

Mechanics

- Dimensions: 102,2 mm x 49,2 mm x 19,7 mm
- · Weight: 89,5 g including battery
- · Water and dust proof (IP67), shock resistant
- Firm grip with tactile silicone keypad

Display and keys

- · Alterable SOSkey colour
- · LCDdisplay with guiding symbols
- Preprogrammable function keys and menu key
- 4 numeric keys for Answer/ Assistance call
- Dedicated keysfor Amber alert and Mandown alarm functions

Provisioning and security

- · Remote or local configuration
- · Authorisation of remote and local access
- SSL/TLSsecured server connection

Operating time and temperature

- · Rechargeable 1350 mAh Li-ion battery
- Typical operating times, GNSSsatellite positioning/ cellular data reporting**
- 9 days (1 report / hr)
- 5 days (1 report / 10 min)
- 33 hours (1 report / min)
- 10 hours (1 report / 5 sec)
- Up to 12 days (cellular network standby)
- Recharging time*** < 4 hrs for 95 %
- Operating temperature -20°C +50°C

Satellite positioning system

- High performance multi constellation GNSS receiver (GPS,Glonass and Galileo)
- Time to first fix: warm start <10 s; cold start < 35 s
- · Configurable opt-out and roaming block
- · Extended ephemeris on-board generation
- Motion based GNSScontrol

Software and resources

- TWIGConfigurator PCapp
- TWIGFirmwareLoader PCapp
- TWIGIntegrator Kit for ARCintegration

TWIGPoint turn-key services

- TWIGPoint Remote Configurator for device settings management over the air
- TWIGPoint Netloc service for public space location (cellular + Wi-Fi) and for on-site location (TWIGSRD
- + Wi-Fi + BLE)
- TWIGPoint AGNSSfor faster GNSSlocation (free of charge)
- TWIG Point Monitor for alarms monitoring and tracking
- TWIGPoint Site for site planning and management

Standard sales package

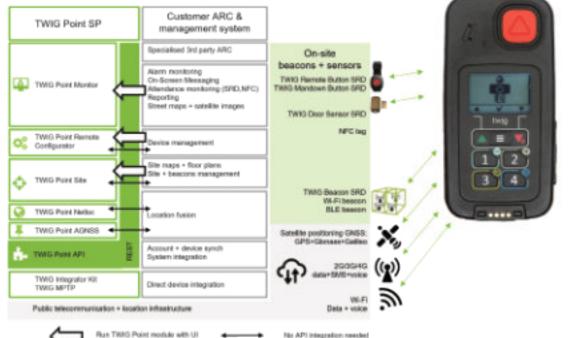
- TWIGOne personal alarm device with integral battery
- · Charger with adapter of choice (EU/UK/AU)

Optional device features

- · 2G/3G/4G mobile network*
- · Wi-Fi only (without mobile network)*
- · 2G only (TLP50EU)*
- GNSSsatellite positioning*
- Mandown alarm*
- SRD3* for device compatibility with TWIG short range devices (SRD), VoIP calls and data transfer via Wi-Fi (only latest device versions of TLP53EU) and location and BLE beacons
- NFC* Reader 13.56 MHz

Accessories

- · Charging and programming stations
- · Alterable SOSkey colour, DIYkit
- Belt clip
- Carrying case
- Car charger
- TWIGBeacon SRD*
- TWIGRemote Button SRD*
- TWIG Door Sensor SRD*
- TWIGMandown Button SRD*





Twig ComLtd. Lairolantie 14 FIN – 24910 SALO FINLAND Tel: +358 40 510 5058

