

Twig One

The Optimal Lone Worker Alarm for Industrial Use



Twig One is a personal alarm device optimized for lone worker protection 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 heavy duty applications.



- Lone worker protection functions
- Automatic ManDown detection on fall, tilt or impact
- Device and server based Amber alert
- Distinct and tactile SOS key for panic situations
- 2-way hands-free voice calls
- SOS cycle with 10 preprogrammable numbers
- Tracking and locating indoors and outdoors
- Attendance monitoring with NFC tags
- Short cut dial keys



Hybrid indoor / outdoor location

- Satellite positioning with 3-constellation GNSS
- TWIG Point AGNSS service for faster location fix
- Hybrid indoor location with TWIG SRD, Wi-Fi and Bluetooth Low Energy (BLE) beacons (SRD3 device option)
- TWIG Point Netloc service for public space location (cellular network + public available Wi-Fi base stations)
- TWIG Point Netloc service for on-site location (TWIG SRD beacons + on-site Wi-Fi base stations + BLE beacons)



Effective communication in emergency

- Optional 2G/3G with 4G data
- Interactive on-screen messages
- Preprogrammed one-touch status messages
- One-touch voice calls
- Powerful speakerphone



Robust and ergonomic

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



Sustainable product life-cycle

- Backwards compatible with previous TWIG devices
- Improved device maintenance
- Engineered and manufactured fully in-house



Remote device management

- TWIG Point Remote Configurator
- Firmware over the air (FOTA)
- Access with TWIG Point SP web account
- Saves time and money in customer support

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. Twig One can trigger alert in ARC also in absence of mobile network connection.****

Scalable for your needs

Twig One can 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-telephone boosts two-way voice communications. Powerful vibrating alarm and alarm tones help sensing pre-alarms and incoming communications.

Indoor positioning

In many buildings GNSS satellite signals are blocked and GNSS-computed location is not available at all.

The indoor location is possible with the device option SRD3 enabling the accurate indoor location by using signals from 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 Twig devices 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 SMS with web map link.

Twig One

Technical Specification (TLP50EU)

Compatibility and communication

- Communicates with all systems using MPTP (Mobile Phone Telematics Protocol) both SMS and GPRS (IP).
- Tracking and alert messages include information on satellite positioning, TWIG SRD beacons, speed, heading and battery charge.

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

Key telematics functions

- Manual alert through SOS key
- ManDown alarm with 4 automatic alert triggers: device orientation, non-movement, free fall and impact
- Two-way 3G/GSM voice with speaker
- 2G/3G/4G SMS + Data (IP) connection*
- Device and user status messages
- Interactive on-screen messages
- GNSS satellite positioning
- Twig Beacon SRD / Wi-Fi / BLE location*
- Geofence

Key technical features

- GSM/GPRS/EDGE: Dual band 900/1800 MHz
- UMTS/HSPA+: Dual band 900 (BdVIII) / 2100MHz (BdI)
- LTE (VoLTE not supported): Penta band 700 (Bd28) / 800 (Bd20) / 900 (Bd8) / 1800 (Bd3) / 2100 MHz (Bd1)
- Built-in GSM, SRD*, GNSS, Wi-Fi*, BLE*, NFC* antennas
- Speakerphone with 2 microphones
- Powerful vibrator

Provisioning and security

- Remote or local configuration
- Authorisation of remote and local access
- SSL/TLS secured server connection
- Firmware over the air (FOTA)

Operating time and temperature

- Rechargeable 1350 mAh Li-ion battery
- Typical operating times, GNSS satellite 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 48-channel receiver
- Multi constellation GNSS receiver (GPS, Glonass and Galileo)
- Time to first fix: Hot start 1 s; cold start < 35 s
- Configurable opt-out and roaming block
- Extended ephemeris on-board generation
- Motion based GNSS control

Twig Point turn-key services

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

Display and keys

- Alterable SOS key colour
- LCD display with guiding symbols
- Preprogrammable function keys and menu key
- 4 numeric keys for Answer / Assistance call
- Dedicated keys for Amber alert and Mandown alarm functions

Software and resources

- Twig Configurator PC app
- Twig FirmwareLoader PC app, FOTA
- Twig Integrator Kit for ARC integration

Standard sales package

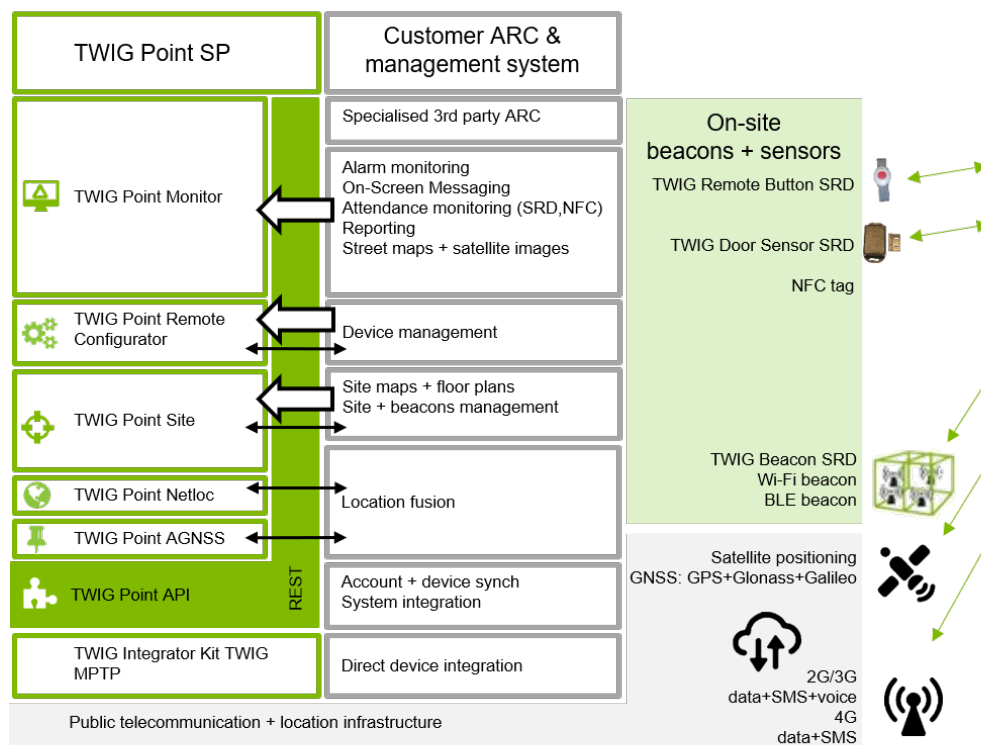
- Twig One 2G/3G personal alarm device with ManDown alarm and GNSS positioning functions and integral battery
- Charger with adapter of choice (EU/UK/AU)

Optional device features

- 2G/3G with 4G SMS + Data (IP connection)*
- SRD3* for device compatibility with Twig short range devices (SRD), Wi-Fi and BLE beacons
- NFC* Reader 13.56 MHz

Accessories

- Charging and programming stations
- DIY kit for alterable SOS key colours
- Belt clip with mounting screws and brace
- Carrying case
- Car charger
- Twig Beacon SRD*
- Twig Remote Button SRD*
- Twig Door Sensor SRD*



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← Run Twig Point module with UI ↔ No API integration needed



Product images are indicative only. Twig Com reserves right to change all information without prior notice. Communication is only possible within mobile network coverage. *Optional device feature. **Operating times may vary substantially depending on environment. ***Charging only above 0°C and below 40°C. ****Requires appropriate central station implementation. TWIG is a registered trade mark of Twig Com Ltd. More information: www.twigcom.com