

# TWIG Neo

The wearable  
4G lone worker alarm

TWIG Neo is a wearable personal alarm device designed to adapt for various lone worker and personal safety needs. Multiple wearing options, scalability and small size make it ideal e.g. for laboratory, maintenance and health care staff. Even if very small, TWIG Neo provides all essential lone worker protection functions and it can be easily integrated with various monitoring systems.



## Lone worker protection functions

- Automatic ManDown detection on tilt, non-motion and fall
- Device and server based Amber alert
- Distinct and tactile SOS key for panic situations
- 2-way hands-free voice calls
- SOS cycle with preprogrammable phone numbers
- Tracking and locating indoors and outdoors



## Hybrid indoor / outdoor location

- Satellite positioning with 3-constellation GNSS
- TWIGPoint AGNSS service 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 + public available Wi-Fi base stations)
- TWIGPoint Netloc service for on-site location (TWIGSRD beacons + on-site Wi-Fi base stations + BLE beacons)



## Effective communication in emergency

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



## Small and scalable

- User Interface with configurable menu and function keys
- Discreet, light and user-friendly
- Multiple wearing options
- 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

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

## Lone worker protection

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 Neo can trigger alert via Wi-Fi\*. Data transfer via Wi-Fi is available with SRD3 option.

## Scalable for your needs

TWIG Neo 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 Neo is fast to deploy and flexible to operate. It is also USB programmable, either manually or from file.

## Configurable UI and keypad

The configured menu key gives fast access to main functionalities. Also the red and green function keys can be configured to replace their primary functions with any other of the functionalities available.

## Multiple wearing options

TWIG Neo is compatible with multiple wearing options: belt clip, lanyard, bracelet and carbine hook.

The ripcord of the carrying strap provides the possibility of triggering alarm when detached from device. The rip alarm is a useful functionality especially for many service sector lone workers facing the risk of harassment, violence and aggression in their daily work.

## Attendance monitoring with SRD Tag

TWIG Neo registers attendance by swiping TWIG Tag short range device fastened e.g. on the wall next to door.

## 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.

## 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.

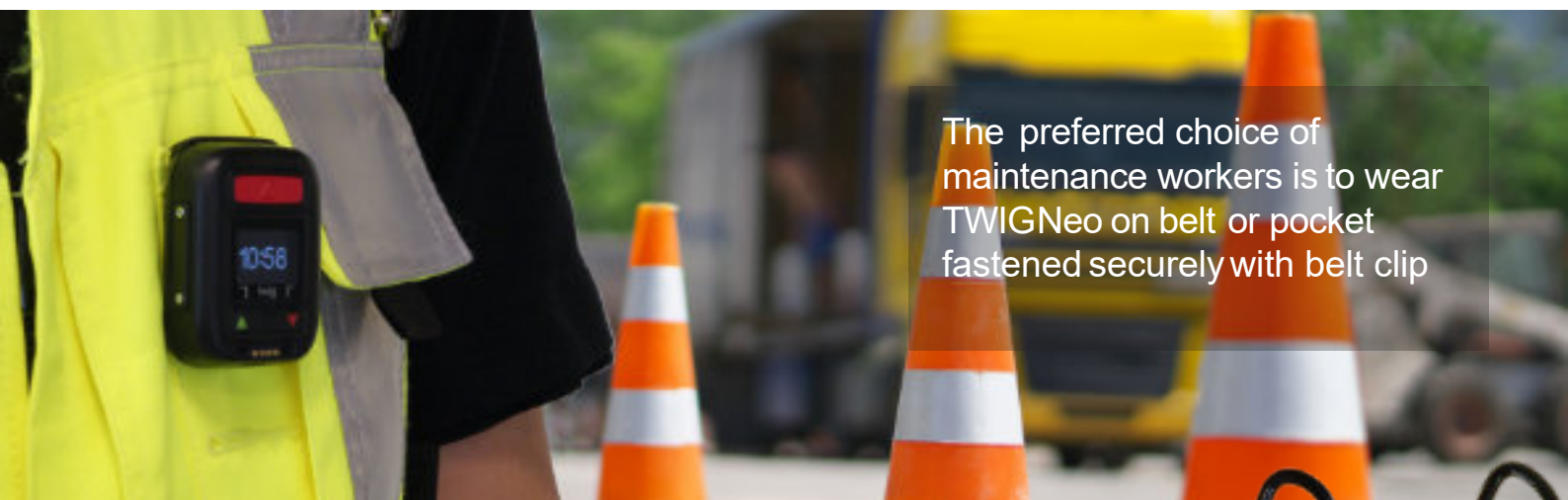
Alarms and reports can also be received on smartphone as SMS with web map link.

Worn with lanyard and ripcord  
TWIGNeo suits especially for  
front office, health care and  
social workers



- TWIGNeo worn with lanyard and ripcord is easy to carry and quick to reach
- Lanyard is equipped with magnet launching rip alarm when detached from device
- Rip alarm is available only with TWIGNeo equipped with lanyard and ripcord magnet
- Optional ID badge holder extends device use for front office and social and health care staff.

- TWIGNeo worn on wrist is your safety watch always at hand
- Worn on wrist TWIGNeo is quick to activate in case of emergency
- It is ideal for laboratory workers or similar lone worker jobs where wearing a watch is not disturbing the daily duties

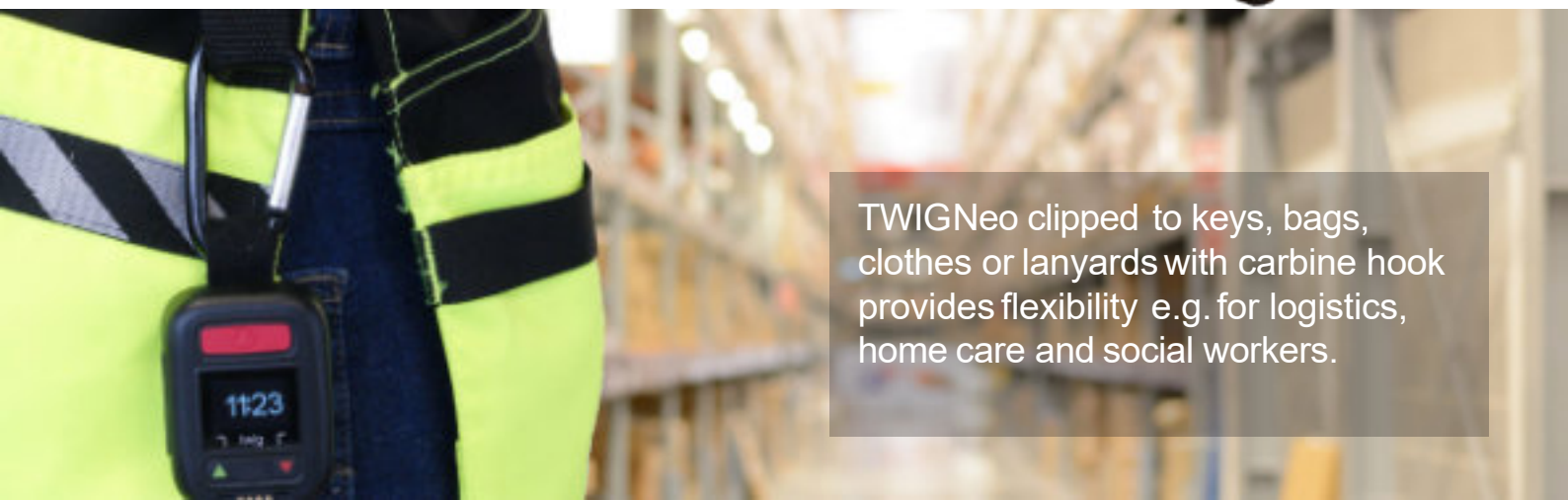


The preferred choice of  
maintenance workers is to wear  
TWIGNeo on belt or pocket  
fastened securely with belt clip



- The robust belt clip is easy to click on device
- The belt clip makes TWIGNeo wearable on belt or clothing
- Fast to clip on and remove

- With the combination of carbine hook and velcro loop wearing options are various: clipped on clothes or any other wearables
- Also the velcro loop alone is an option for fastening the device tightly



TWIGNeo clipped to keys, bags,  
clothes or lanyards with carbine hook  
provides flexibility e.g. for logistics,  
home care and social workers.



# TWIG Neo

## Technical Specification (TLP54EU)

### Compatibility and communication

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

### Mechanics

- Dimensions: 18 mm x 46 mm x 62 mm
- Weight: 54 g including battery
- Water and dust proof (IP67), shock resistant
- Firm grip with tactile silicone keypad

### Key telematics functions

- Manual alert through SOSkey
- ManDown alarm with 4 automatic alert triggers: device orientation, non-movement, free fall and impact
- 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 GHz Wi-Fi network)
- Device and user status messages
- Interactive on-screen messages
- GNSS satellite positioning
- TWIG Beacon 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, Wi-Fi\*, BLE\* antennas

### 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 750 mAh Li-ion battery
- Typical operating times, GNSS satellite positioning/cellular data reporting\*\*
- 4 days (1 report / hr)
- 2 days (1 report / 10 min)
- 15 hours (1 report / min)
- 4 hours (1 report / 5 sec)
- Up to 12 days (cellular network standby)
- Recharging time\*\*\* < 3 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 GNSS control

### 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 AGNSS for faster GNSS location (free of charge)
- TWIGPoint Monitor for alarms monitoring and tracking
- TWIGPoint Site for site planning and management

### Display and keys

- Alterable SOSkey colour
- OLED display with guiding symbols
- Preprogrammable function keys and menu key

### Software and resources

- TWIGConfigurator PC app
- TWIGFirmwareLoader PC app, FOTA
- TWIGIntegrator Kit for ARC integration

### Standard sales package

- TWIGNeo personal alarm device with integral battery
- Charger with adapter of choice (EU/UK/AU/US)
- Carrying option of choice (belt clip, lanyard, bracelet, carbine hook or ID badge holder with lanyard)

### Optional device features

- 2G/3G/4G mobile network\*
- Wi-Fi only (without mobile network)\*
- 2G only\* (TLP52EU)
- GNSS satellite positioning\*
- ManDown alarm\*
- SRD3\* for device compatibility with TWIG short range devices (SRD), VoIP calls and data transfer via Wi-Fi (only TLP54EU) and for location with Wi-Fi and BLE beacons

### Accessories

- Charging and programming stations
- Alterable SOSkey colour
- Belt clip
- Lanyard
- Bracelet
- Carbine hook
- ID badge holder and lanyard
- Car charger
- TWIG Beacon SRD\*
- TWIG Remote Button SRD\*
- TWIG Door Sensor SRD\*
- TWIG Tag SRD\*
- TWIG Mandown Button SRD\*



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