TWIG Protector Pro

The Powerful Personal Alarm

TWIG Protector Pro is a powerful 3G/GSM/GNSS personal alarm device designed to protect lone workers in noisy and demanding environments.

Dedicated alarm device
• ManDown++, Amber alert
• SOS key for panic situations
• 2-way voice
• IP67 waterproof

Powerful in noisy environments
• High volume hands-free calls
• Powerful vibrating alarm and alarm tones to grab attention
• Tactile silicone keypad for firm grip also with gloves

Agile communication
• Interactive on-screen messages
• Pre-programmed one-touch status messages
• One-touch voice calls

Location fusion
• Using all means to find the person in distress
• TWIG Point Netloc and TWIG Point AGPS
• TWIG Beacon SRD on-site locating devices

TWIG life cycle economies
• Support services
• Engineered and manufactured in-house by TWIG

Remote device management
• TWIG Point Remote Configurator
• Saves time and money in customer support

Dedicated lone worker alarm

Duty of care requires employers to give lone workers means to alert help. Depending on risk assessment, a dedicated alarm device may be required.
• Automatic ManDown++ function can trigger alert if user is incapacitated.
• When entering a risky situation, enhanced monitoring can be requested with Amber alert. It can trigger alert in ARC also in absence of GSM connection.****

Efficient deployment

Remote configuration makes TWIG device fast to deploy and flexible to operate. Also USB programmable, either manually or from file.

Alarms monitoring and tracking

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

Optionally the TWIG WebFinder SP software provides a turn-key solution for testing or deployment.

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

Attendance monitoring

TWIG personal alarms register attendance by swiping TWIG Tag RF identifiers.

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TWIG Protector Pro
Technical specification (TUP92EU)

Compatibility and communication
• Communicates with all systems using MPTP (Mobile Phone Telematics Protocol) both SMS and GPRS.
• Tracking and alert messages include information on GPS / TWIG Beacon locating devices, speed, heading and battery charge.

Provisioning and security
• Remote or local configuration
• Authorisation of remote and local access

Mechanics
• Dimensions: 28 mm x 47 mm x 99 mm
• Weight: 119 g including battery
• Waterproof (IP67) and shock resistant
• Tactile silicone keypad for firm grip

Key telematics functionality
• Manual alert through SOS key
• ManDown++ alarm with four automatic alert triggers: device orientation and non-movement, free fall and impact
• Two-way 3G/GSM voice with speaker
• Device and user status messages
• Interactive on-screen messages
• GPS / TWIG Beacon SRD tracking*
• Geofence

Key technical features
• Quad-band GSM (850/900/1800/1900 MHz)
• 5-band 3G (800/850/900/1900/2100 MHz)
• Built-in GSM, SRD and GPS antennas
• Operating temperature -20° C +50° C
• High-power speaker-phone
• Powerful vibrator

Operating time
• Rechargeable 1350 mAh Li-ion battery
• Typical operating times, GPS/GPRS reporting**

    9 days (1 GPS report / hr)
    5 days (1 GPS report / 10 min)
    33 hours (1 GPS report / min)
    10 hours (1 GPS report / 5 sec)
    Up to 12 days (GSM standby only)
• Recharging time*** < 4 hrs for 95 %

GNSS
• High performance 48-channel receiver
• Multi constellation GNSS receiver (GPS, Glonass, Galileo and BeiDou)
• 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 GPS control

Display and keys
• Dedicated ergonomic SOS key
• LCD display with guiding symbols
• Preprogrammable quick dial / status keys
• Answer / Assistance call
• Power On / Off / End call

Sales package content
• TWIG Protector Pro personal alarm device with integral battery
• Charger with adapter of choice (EU/UK/AU)
• User and safety documents

Optional device features
• 3G Mobile network*
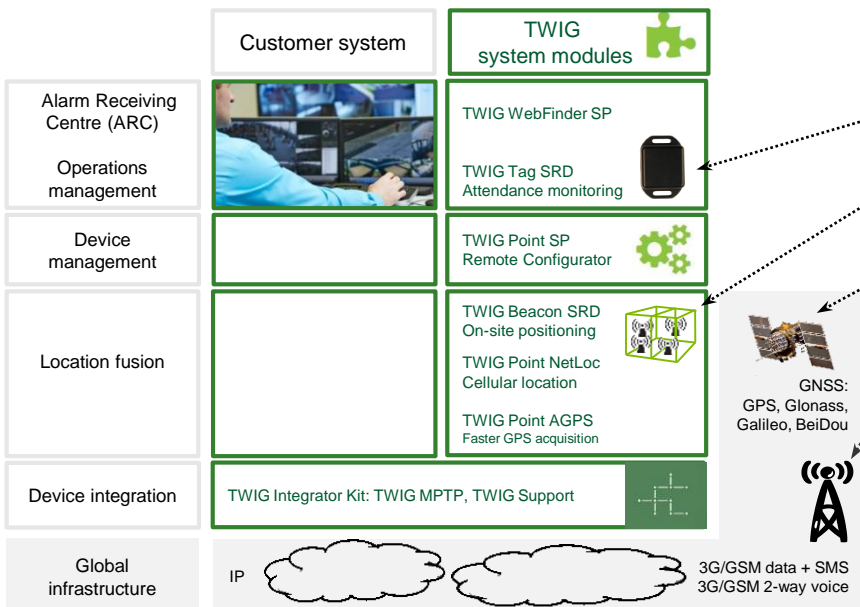• SRD (short range device) compatibility*

Accessories
• TWIG Beacon SRD locating device*
• TWIG Tag SRD RF identifier*
• TWIG Button SRD wireless alarm*
• TWIG Door Sensor SRD*
• Charging station
• Carrying case

Software and resources
• TWIG Configurator PC app
• TWIG FirmwareLoader PC app
• TWIG WebFinder monitoring SaaS
• TWIG Integrator Kit for ARC integration

TWIG Point Services
• Remote Configurator: turn-key service to manage all device settings over the air
• Netloc: turn-key cellular location service
• AGPS: turn-key service to speed up GPS

SOS key

Customer system	TWIG system modules
Alarm Receiving Centre (ARC) — Operations management	TWIG WebFinder SP — TWIG Tag SRD Attendance monitoring
Device management	TWIG Point SP Remote Configurator
Location fusion	TWIG Beacon SRD On-site positioning — TWIG Point NetLoc Cellular location — TWIG Point AGPS Faster GPS acquisition
Device integration	TWIG Integrator Kit: TWIG MPTP, TWIG Support
Global infrastructure	IP

GNSS: GPS, Glonass, Galileo, BeiDou

3G/GSM data + SMS
3G/GSM 2-way voice

Quick dial
Status
Amber alert
ManDown alarm

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