100% MADE IN ITALY

NeosGuard X, Italian quality and safety at your service

NeosGuard X

Safety for everyone

The NeosGuard X man-down device is designed to protect lone workers, seniors, children and more.
Your trusted shield.



NEW:

- Man-down function
- No-movement detection
- Inactivity (dead time) monotoring
- Option to make calls with a personalized pre-recorded message
- Bluetooth function for indoor localization

WhatsApp NeosGuard X
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RoHS COMPLIANT

MAN DOWN
NeosGuard X can help save a life!

NEOSGUARD X, YOUR MAN-DOWN DEVICE, AT THE FOREFRONT OF SAFETY

NeosGuard X

OTHER SAFETY DEPENDS ON YOUR CHOISE.

PROTECT THOSE WHO ARE ALONE!



NeosGuard X is a revolutionary next-generation device that integrates all the essential functions needed to ensure the safety, protection, and security of people, property, and animals.
Thanks to its built-in GPS receiver, it can determine its precise location and send the data to a designated contact person.
Additionally, **NeosGuard X** is equipped with high-sensitivity Blueto-oth, which—through specially configured BLE sensors—enables the tracking of objects, people, and animals in enclosed spaces, allowing for seamless indoor localization.
For these reasons, **NeosGuard X** represents the most advanced and comprehensive solution for safeguarding people and property—especially ideal for monitoring lone workers, such as drivers, night guards, security personnel, and surveillance staff, as well as for the protection of elderly individuals, people with disabilities, those with memory or orientation issues, and children, among others.

What is NeosGuard X?

NeosGuard X is a revolutionary next-generation device that integrates all essential functions needed to ensure the safety and protection of people, assets, and animals. Thanks to its built-in GPS receiver, it can determine its position and send the data to a designated contact person. It is also equipped with high-sensitivity Bluetooth, allowing for indoor location tracking via BLE sensors specifically configured for the device, enabling "indoor localization" without interference. **NeosGuard X** is the most complete and effective solution for personal and asset protection, particularly ideal for monitoring lone workers such as drivers, security guards, night watchmen, as well as elderly individuals, people with disabilities or memory issues, and children.

Key Features of NeosGuard X

- Designed and manufactured 100% in Italy
- Compact size
- Easy to use – intuitive interface requiring no technical expertise
- Man Down detection – detects a change in posture
- No-Movement Detection – available in **PRO** and **ADVANCED** versions
- Inactivity Detection (Dead Time) – available in **PRO** and **ADVANCED** versions
- High-sensitivity GPS tracking, sends automatic or on-demand location
- Indoor location tracking via BLE sensors and Bluetooth
- Sends SMS alerts or voice calls
- Sends personalized pre-recorded voice messages (**ADVANCED** version only)
- Sends automatic help alerts, or manual alerts via central SOS button
- Geo-fence and Auto Geo-fence capabilities
- Works with a regular SIM card, from any operator
- No subscription required



NeosGuard X comes with all essential features already integrated - there are no optional add-ons required.
The user can choose which features to activate, and the device requires no special installation.
It is easy to use and configure, and our technical team is available to provide full support and clarification as needed.
To operate its main functions, the device simply requires a standard **mobile SIM card** (not included), from any provider.
NeosGuard X is available in three different versions, each distinguished by the features included and configurable in that specific model:

- **NeosGuard X BASIC**
- **NeosGuard X PRO**
- **NeosGuard X ADVANCED**

KEY FEATURES	Versione Neosguard X BASIC	Versione Neosguard X PRO	Versione Neosguard X ADVANCED
Device check	✓	✓	✓
GPS activation/ deactivation	✓	✓	✓
Man-down function	✓	✓	✓
Alarm via call or SMS	✓	✓	✓
Configurable keypad	✓	✓	✓
Low battery alert	✓	✓	✓
Geo-fence	✗	✓	✓
No-movement function	✗	✓	✓
Dead time function	✗	✓	✓
Power on/off alert	✗	✓	✓
Alarm with both call and SMS	✗	✓	✓
Cyclic alarm cancellation	✗	✓	✓
Auto geo-fence	✗	✓	✓
Alarm with customizable recorded message	✗	✗	✓
Shock function	✗	✗	✓
Alarm suspension management	✗	✗	✓
Indoor localization with BLE sensors	✓	✓	✓

NeosGuard X

Who is the NeosGuard X designed for?



EMPLOYEES



CAREGIVERS



RECEPTIONISTS



DISABLED PEOPLE



CONSTRUCTION WORKERS



CLEANING STAFF



SALES ASSISTANTS



ELDERLY PEOPLE



SECURITY GUARDS



DOCTORS



WORKERS/MAINTENANCE STAFF



WAREHOUSE WORKERS

The **NeosGuard X** device is the best all-around solution for the protection and safety of individuals who find themselves isolated, without anyone nearby to assist in case of illness or emergency. This includes elderly people, lone workers, disabled individuals, or anyone who occasionally finds themselves alone without the possibility of calling for help.

The main functions of the NeosGuard X are:

• **"Man Down" Function:** This feature alerts in the event of a person falling. Thanks to the integrated sensor, the device detects changes in inclination from the original upright position. If the configured tilt angle is exceeded, the selected alarm mode is triggered. This maximum angle can be set during device configuration; by default, it is set to 55°.

• **Device Check Function:** When this function is activated, the device sends an SMS message at configurable intervals to confirm that it is functioning correctly.

• **GPS Function:** The device can automatically or on demand send its GPS location via SMS, including a Google Maps link. It can also be configured to send its location at regular, customizable intervals.

• **Battery Function:** The device notifies the user via SMS of the battery charge level.

• **Bluetooth Function:** The device can automatically or on demand transmit its indoor position-within buildings, offices, complexes, etc.-by detecting specially configured BLE (Bluetooth Low Energy) sensors for this purpose.

Functions available only on the NeosGuard X Pro and Advanced versions:

• **No Movement Function:** This feature monitors the movement of the NeosGuard X device. If no movement is detected for a configured period of time, the selected alarm signal is triggered.

• **Idle Time Function:** This monitors device activity. If the device remains inactive—meaning the "A" button is not pressed-for a configured duration, the preset alarm signal is activated.

• **Power On/Off Alarm Function:** When enabled, the device sends a predefined message whenever it is turned on or off. This is useful for monitoring device usage.

• **Geo-Fence Function:** Allows the definition of specific geographic areas and sends an alert when the device enters or exits those zones.

• **Auto Geo-Fence Function:** Unlike the standard geo-fence, this is configured directly via the NeosGuard X device (not via a map). By sending a simple SMS command, the current GPS position is used to create a geo-fence, based on a preconfigured radius.

Function available only on the NeosGuard X Advanced version:

• **Alarm Call with Pre-Recorded Message:** When this function is enabled-available exclusively on this version of the NeosGuard X device-the recipients of the emergency call will hear a standard pre-recorded message, or alternatively, a customized pre-recorded message.

For example: *"Man down alarm for Mr. Paolo Rossi from Bianchi Srl, Milan."*

Alarm Transmission Modes

The emergency alert can be triggered in two ways:

** Automatic Activation

If the NeosGuard X device detects that one of the following functions has been activated:

- **Man-down**
- **No movement**
- **Inactivity**

it sends an SMS alarm or initiates a call cycle to multiple recipients (up to a maximum of 5) for a pre-set duration.

Naturally, it's possible to define a pre-alarm time during which the device alerts the user that an alarm state has been triggered. After this pre-alarm time, the configured alarm procedure will begin:

- **SMS sending**
- **Call initiation**
- **SMS and call together (available only on Pro version)**
- **Call with recorded message (available only on Advanced version)**

Of course, if the device returns to its original state within the pre-alarm time, the configured alarm procedure will be deactivated. This means:

• If the pre-alarm was activated due to a change in inclination (man-down function) and the device returns to a vertical position;

• If the pre-alarm was activated due to a lack of movement (no movement function) and the device detects some movement;

• If the pre-alarm was activated due to a lack of activity on the buttons (inactivity function) and button A is pressed.

**Manual Activation

When the NeosGuard X owner presses the central red (SOS) button, the device sends an SMS alarm or initiates a call cycle to multiple recipients (up to a maximum of 5) for a pre-set duration.

Naturally, you can define a pre-alarm time during which the device alerts the user that an alarm state has been triggered. After this pre-alarm time, the configured alarm procedure will begin:

- **SMS sending**
- **Call initiation**
- **SMS and call together (available only on Pro version)**
- **Call with recorded message (available only on Advanced version)**

Of course, if the alarm end button (button B on the keypad) is pressed within the pre-alarm time, the configured alarm procedure will be deactivated.

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<<VOICE CALL>>



<<SMS>>











SOS

<<FUNCTION>>



<<GPRS data transmission>>



NeosGuard X: Your advanced man-down device, at the forefront of safety.

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Indoor Location



WHEN AN ALARM IS TRIGGERED, EITHER AUTOMATICALLY OR MANUALLY, THE DEVICE SENDS AN SMS WITH THE EXACT INDOOR POSITION OF THE PERSON, PINPOINTING THE WORKER'S LOCATION INSIDE A BUILDING.

SMS Alarm Example

Alarm ACTIVATED: NEOSGUARD X 08/31/2023 22:10:52 Man-down Location: Building A, 5th Floor, Reception

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THE DEVICE SENDS AN SMS WITH THE EXACT INDOOR LOCATION OF THE PERSON OR WORKER, EITHER ON REQUEST OR AUTOMATICALLY.

SMS Location Example

BLE Location: NEOSGUARD X 08/29/2023, 12:08:47 Location: 2nd floor living room

NeosGuard Plus - Device Features

- **Multi-GNSS System: GPS, GLONASS, Galileo/BDS/QZSS**
- **LTE Module**
- **Micro SIM**
- **256 MB Internal Memory**
- **5 Programmable Buttons**
- **3 LED Status Indicators**
- **Remote Control via SMS**
- **Integrated Antenna**
- **USB Type-C**
- **Ultra Low-Power 3-Axis Motion Sensor with Integrated AI**
- **Speaker and Microphone for Hands-Free Calling**
- **Device configuration via access to the www.neosconfig.it portal and via SMS**

- **Device Check Function**
- **Geo-fence Function**
- **Auto-Geo-fence Function**
- **Man-Down Function**
- **No Movement Function**
- **Inactivity Function (or Dead Man's Switch Function)**
- **Device Power On/Off Alarm Function**
- **Alarm Sending via SMS, Call, and/or with Recorded Message**
- **Auto-Geofence Function**
- **Battery Level SMS Notification**
- **Battery:** 1020 mAh 3.7V - 3.8 Wh Lithium-ion
- **Weight:** Approximately 85 grams
- **Dimensions:** 98 x 54 x 24 mm
- **Recommended Operating Temperature:** -20°C to 50°C
- **General Operating Temperature:** -20°C to 60°C
- **Battery Charging:** Charge the battery in an environment from 0°C to 45°C. Charging outside this range can damage the battery.

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1. LED Indicators: Show device status for battery, GSM, and GPS/Alarm.
2. Speaker
3. GPS LED: Also indicates when an alarm is active by flashing red.
4. Alarm Button (**SOS**): Activates the alarm function.
5. Call End Button: Powers the device on/off and ends calls.
6. Configurable Button **A**
7. Microphone
8. Micro USB Connector: For PC connection and battery charging.
9. Configurable Button **B**: Default is Alarm Off.
10. Battery Cover
11. Voice Call Button: Used for calling, answering, or holding calls, and is also configurable.
12. Lanyard Attachment

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NeosGuard X

SAFETY FOR EVERYONE

MAN DOWN
NeosGuard X can help save a life!

The **NeosGuard X** "man-down" device is useful for the safety of lone workers, the elderly, and children.



Lone workers



elderly individuals



lone workers requiring assistance



Elderly person in need of assistance



voice/SMS alarm to alert of danger



emergency services are called





Emergency services arrive



medical personnel intervene



Thanks to NeosGuard X, the worker and the elderly person are safe!

NEOS SISTEMI

info@neossistemi.it www.neossistemi.it tel. 0861 760545

NeosGuard X: Your advanced man-down device, at the forefront of safety.

NeosGuard X

Workplace Safety

The NeosGuard X is an invaluable device for complying with Italian Legislative Decree 81/08 (D.L.gs. 81/08).

ITS MAN DOWN FUNCTION, COMMONLY KNOWN AS "MAN-DOWN"

ensures the protection and safety of lone workers.



Device compliant with Legislative Decree No. 81 of April 9, 2008, Article 43.



SAFETY FOR EVERYONE

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www.neosguard.it

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What are Lone Workers?.

Lone workers are individuals who perform their job duties in isolated environments or without companionship, meaning there are no colleagues or other people nearby. This category includes many different professions, such as truck drivers, construction workers, farmers, artisans, and many others.

However, being a lone worker can involve significant health and safety risks. These workers often operate in dangerous environments, like construction sites or rural and isolated areas, which can put their lives and health at risk.

To prevent accidents and ensure the safety of lone workers, many specific safety measures can be adopted. For example, workers can use personal safety devices like man-down devices, such as the NeosGuard X. Additionally, workers can be trained to manage emergency situations and know how to call for help if needed.

It's important to note that isolation isn't just a geographical issue. Workers who work alone in an office or perform remote work can also be considered lone workers, as they don't have colleagues nearby. In these cases, it's crucial to adopt specific safety measures to ensure their security. For instance, using communication tools, like man-down devices, can help workers stay in contact with colleagues and reduce feelings of isolation.

WHY SAFETY ISN'T A GAME...



BUT IT'S A VERY SERIOUS MATTER...



If you work alone, who's looking out for your safety?



You Can't Always Rely on Luck!

The Consolidated Law on Safety (D.Lgs. 81/08) generally states that if workers are unable to call for help in an emergency, they cannot work alone in isolated locations. In such cases, at least two people must be employed to perform the task.

The inherent risk of isolated or solitary work, in addition to the risks specific to the job itself, is that in the event of an accident or sudden illness leading to loss of consciousness, assistance and first aid measures cannot be activated if communication is impossible.

It's not always feasible to double the workforce. Many companies have "lone" workers: from cleaning staff working from 5 AM to 7 AM when no one else is in the building, to warehouse workers who might spend many hours alone in the basement, or factory workers on morning or evening shifts in different, isolated sheds, to employees staying late in the office to handle urgent paperwork, and so on.

Workers must be aware of even temporary conditions that might require greater attention and caution. This means targeted and specific training, equipping them with electronic devices that alert in case of a fall (the "man-down function"), and also featuring a "no-movement function." These devices can automatically or manually alert emergency services if needed.

How to Intervene Effectively?

The cost-effective solution to the many challenges of lone work is the NeosGuard X man-down device. This compact device boasts numerous functions, notably its ability to detect if a worker has fallen or isn't moving. If triggered, an alarm sounds, which the worker can deactivate within a preset pre-alarm time if it's accidental. However, in the event of an actual medical emergency, it automatically sends calls and/or SMS messages (even with hands-free communication) and offers customizable audio messages to pre-set emergency numbers defined by the company. Equipped with GPS, the device can also automatically send its GPS coordinates or send them on request, allowing the lost worker to be tracked.

But what if the worker is inside a building where GPS tracking isn't possible?

No problem! The NeosGuard X device also features Bluetooth. Thanks to BLE (Bluetooth Low Energy) sensors that the company can pre-install at strategic points throughout the premises, it's possible to track a lost worker needing assistance even inside warehouses, buildings, and other indoor spaces.

NeosGuard X: The solution to the challenges of lone work.

Enrollment in the A.EE Register A.E.E. N.: IT08030000004391
Enrollment in the Batteries and Accumulators Register N.: IT19060P00005407

NeosGuardX

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