PN1000

Handheld Explosive Detection Device

Pn1000 – A Leading Security Technology

PN1000 is setting new standards in handheld explosive detection based on its unique patented Magneto-Electrostatic Detection (MED) method. PN1000 forms a Modulated Magnetic Field (MMF) that allows detection of all types of commercial and military explosives (TNT, Dynamite, Ammonite & Diesel, PETN, RDX, Gunpowder, Semtex, etc.) including liquid explosives (TATP etc.) within a distance between 2-100 meters behind and through all types of barriers (including concrete, steel etc.).

With PN1000 the classification of objects and areas can be achieved immediately as the device is ready for use without any warm-up time. PN1000 is maintenance-free and designed for continuous use in all climate conditions

Even weapons and ammunition will be detected, which makes PN1000 also especially advantageous for any Police and Military applications whether stationary or mobile.

PN1000 - Technical Data

Length: 130 mm
Height: 48 mm
Width: 30 mm
Weight: 276 g
Operational temperature: -20°C - +55°C,
Wind: Up to 1m/s, (the effect of wind can be reduced through special techniques, provided during the training).

PN1000 - Key Features

- Classify large areas quickly,
- Long-range explosive detection,
- Detection of all explosives in one search-round,
- Handheld device, easy to operate, 24/7,
- Save resources due to fast and efficient usage,
- Detection of liquid explosives such as TATP etc.,
- Works behind and penetrates barriers (e.g. concrete, steel, etc), convert detection possible,
- Can also be applied for weapons, ammunition, landmines, etc.

PN1000 - Quality Standards

PN1000 is manufactured in EUROPE under a quality management system according to EN ISO 9001:2000 standard and certified by Moody International Registration Number Q080514, valid until 18.06.2011. Full compliance to CE conformities for electromagnetic devices.

CE Conformity:

Directive for Electromagnetic Conformability (89/336/EEC) and BSS EN 55014 – 2:1997/A1: 2002 Electromagnetic Conformability. Requirements for electro devices, electro tools and similar devices. Part 2. Stability. Standard for a group of products/CISPR 14-2 AMD 1:2001)

How does PN1000 work?

The specifically Modulated Magnetic Field around PN1000, interacting with the vertical component of the Earth Magnetic Field creates the conditions for detection of chemical compounds, containing – N02/-N3 and 0-.

The bond energy ("vibration energy") between Nitrogen and Oxyde is unique in explosives. The magnetic field that is modulated from PN1000 is tuned for this "vibration energy" and no other substances will be detected from the device.

The conductivity/ bi-polarity of the human body is needed to operate the device. When holding the device in the right hand objects on the left side are detected and vice versa. The detection of explosives is achieved with the crose bearing method.

The operator can apply difference detection scenarios that will allow him to quickly reduce the area to a suspicious point or suspicious object that can either be confirmed by complementary methods or by detection.

PN1000 -Training Scenarios

Different scenarios are especially applicable:
Police and Military use
K9 units
Bomb Squads & EOD Teams
Private Security Companies

PN1000 requires basic training as:

General training takes 1 day, specialized training takes 2 days, Individual detection scenarios like screening out of vehicles etc, can be trained as well.

Integration of PN1000 in existing security measures

PN1000 is complementary to general security measures and allows immediate integration; the Focus is on long-range detection and classification of large areas that would usually require extensive resources.

PN1000 works most efficient, if used as pre-detection device for K9 and trace detector, Detection with PN1000 can be part of convert detection prior to visual controls.

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