

NOMAD-24

PORTABLE MICROWAVE BARRIER SYSTEM



The **Nomad-24** is the portable, fast deployable version of the Predix microwave barrier. This digital microwave barrier, which operates on K-band frequency, can be an ideal solution for creating temporary area protection around military vehicles, military camps, construction sites, mobile platforms.

The Nomad-24 set consist of a microwave barrier (transmitter and receiver unit) plus a control unit, among which a radio transmission system provides the constant communication. In standard operation the devices are powered from their own batteries, but there is a possibility to connect power via cables. The maximum distance between the transmitter and receiver unit of the microwave barrier can be 200 m.

The signal transmission module, which is built in the receiver unit, can send the alarms to the control unit from a maximum 1000 m distance (with directional antenna the range can be extended to 10 km). The control unit can supervise 3 pair microwave barriers. Beside the normal alarms, we can receive information about the battery statuses in case of low voltage.

Thanks to the K-band microwave emission, the detection zone of the device is much narrower, than the X-band microwave sensors, hence it requires smaller clear area. Because of the innovative digital signal processing algorithm and the 250 different frequency channels, the possibility of false alarms caused by interference between multiple detectors on one site in nearly zero.

Due to the narrow detection zone (1,6 m at the longest 200 m range), wide range of settable operating frequencies and the accurate signal processing, the barrier can be deployed in a variety of configurations.

Nomad-24 is expressly designed to work in all weather conditions with continuous round-the-clock operation. The barrier has a wide operating temperature range of -20 °C – +40 °C, and continues to function efficiently even in conditions of rain (up to 40 mm/hour) or wind (up to 30 m/s).

The microwave barrier can be set via RS-485 protocol by a PC with the free setup software or by an android app on tablet.

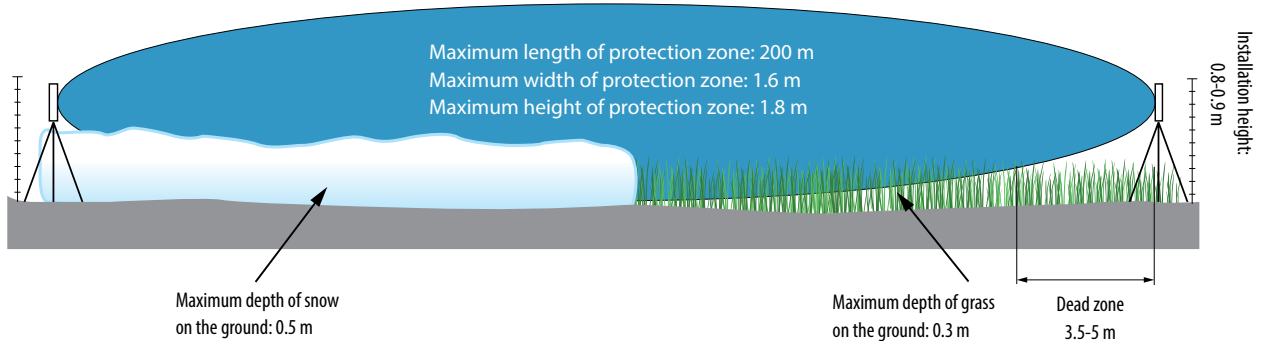
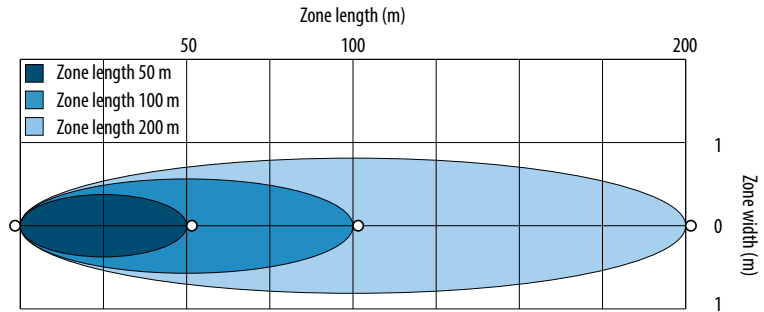
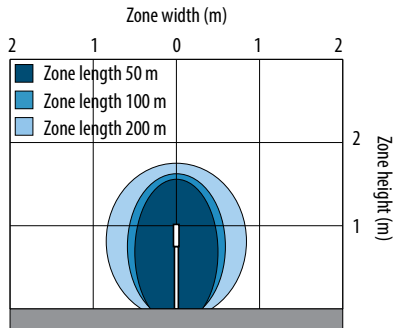
MAIN FEATURES

- RANGE: 20-200 M
- 24,0-24,25 GHZ OPERATING FREQUENCY
- NARROW DETECTION ZONE
- 250 DIFFERENT FREQUENCY CHANNELS TO PREVENT INTERFERENCE BETWEEN SENSORS
- SOFTWARE-CONTROLLED SETUP
- PLUG AND PLAY INSTALLATION
- RADIO RANGE: 1000M
- OPERATION IN ALL WEATHER CONDITIONS

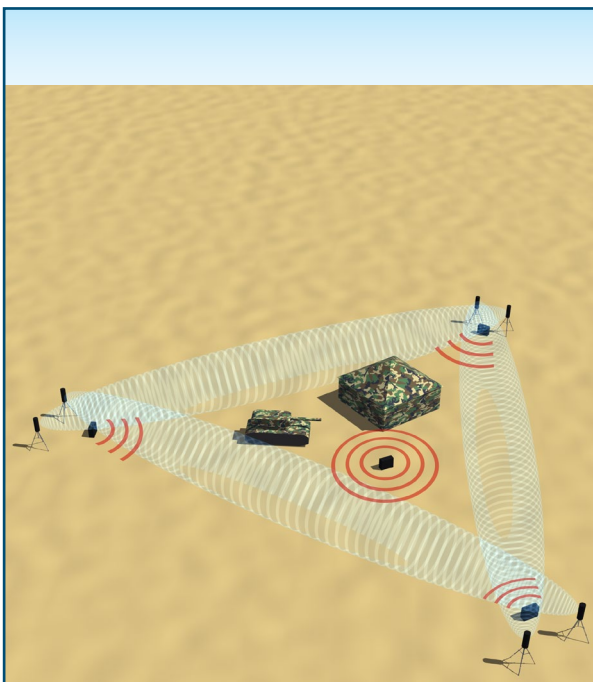


The setups can be also made with the help of a rugged tablet

MAIN INFORMATIONS OF THE DETECTION ZONE



TYPICAL NOMAD-24 INSTALLATION



TECHNICAL FEATURES

Detection range	20-200 m
Detection zone height	1.6-1.8 m
Detection zone width	1-1.6 m
Clear zone width	2-3.2 m
Power supply modes	Battery / Cable
Power supply	12-24 VDC
Operating time	100 hours
Operating frequency	24.0 - 24.25 GHz
Channels	250 (in 1 MHz steps)
Communication	via RS-485
Operating temperature	-20 - +40 C°
Protection	IP 65
Radio transmission range	1000 m
Radio transmission frequency	868 MHz
Radio output power	500 mW