PREDIX™

MICROWAVE BARRIER SERIES

The **Predix™** detector is a linear barrier based on K-band microwave technology. It is comprised of a transmitter and receiver, which together establish perimeter protection with coverage up to 300 meters. It is very simple to install, yet provides a high level of security performance. The microwave signal is digitally converted and analyzed by a microprocessor using an innovative and efficient algorithm.

The dimensions of its detection zone – due to the K-band operating frequencies – are more stable and narrow at different distances than those of similar microwave detectors operating on X-band frequencies.

The barrier settings can be configured with a free-of charge PC software. Predix is an addressable device up to 255 network address, which means, more device's configuration can be carried out via one RS485 communication bus. Predix is the first microwave barrier on the market having the ability to operate on 250 different frequencies, thereby preventing any disturbance or interference caused by microwave reflection.

Due to its narrow detection zone (2 meters at the longest 300m range), wide range of settable operating frequencies and accurate signal analysis algorythm, Predix can be deployed in a variety of configurations.

Predix is expressly designed to work in all weather conditions with continuous round-the-clock operation. The barrier has a wide operating temperature range of -40° C – +65° C, and continues to function efficiently even in conditions of rain (up to 40 mm/ hour) or wind (up to 30 m/s). Predix is recommended for use along the perimeter of buildings, in open space between buildings, on borders, etc.

The microwave barrier can be set via RS-485 protocol with the free-of charge PC software or with the special android tablet.

MAIN FEATURES

- RANGE: 100/200/300 M
- 24,0-24,25 GHZ OPERATION FREQUENCY
- NARROW DETECTION ZONE
- 250 DIFFERENT FREQUENCY CHANNELS TO PREVENT INTERFERENCE BETWEEN SENSORS
- SOFTWARE-CONTROLLED SETUP
- PLUG AND PLAY INSTALLATION
- 255 DIFFERENT NETWORK ADDRESSES
- 1 OC ALARM OUTPUT
- OPERATION IN ALL WEATHER CONDITIONS

PREDIX™
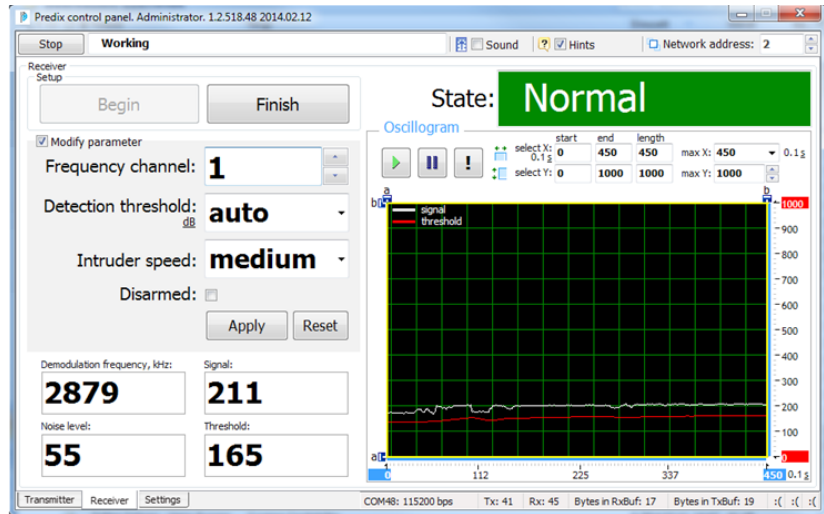## MICROWAVE BARRIER SERIES

Umirs Europe
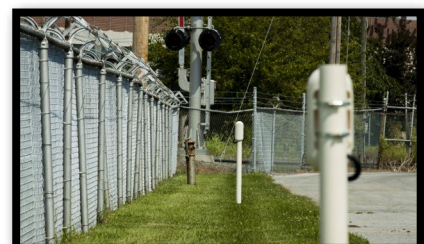
SOFTWARE-CONTROLLED SETUP

The **Predix control panel** is a free-of charge PC software to perform settings and adjustment of the barrier's features.
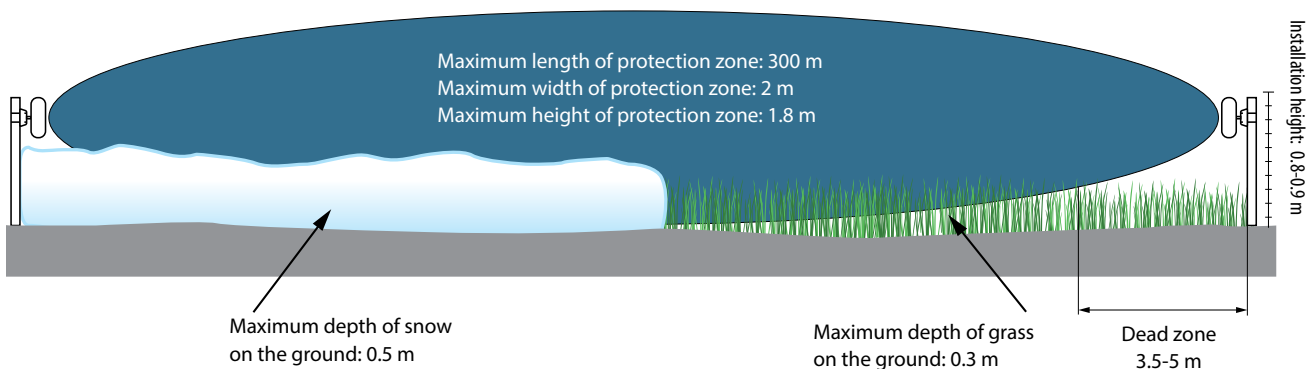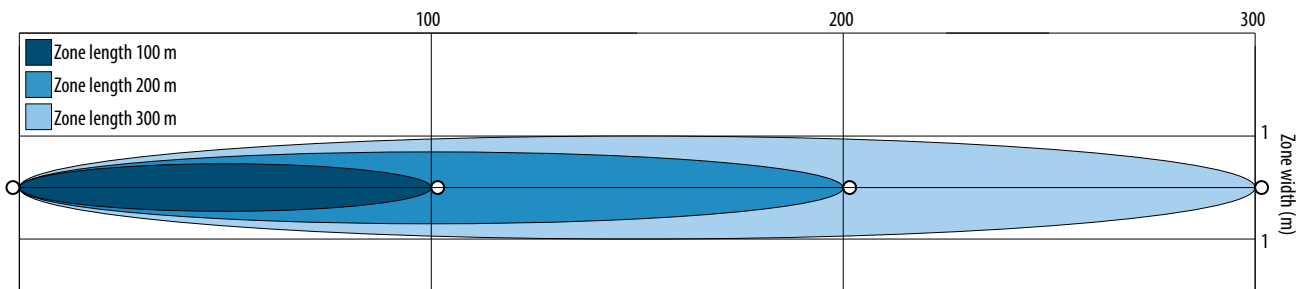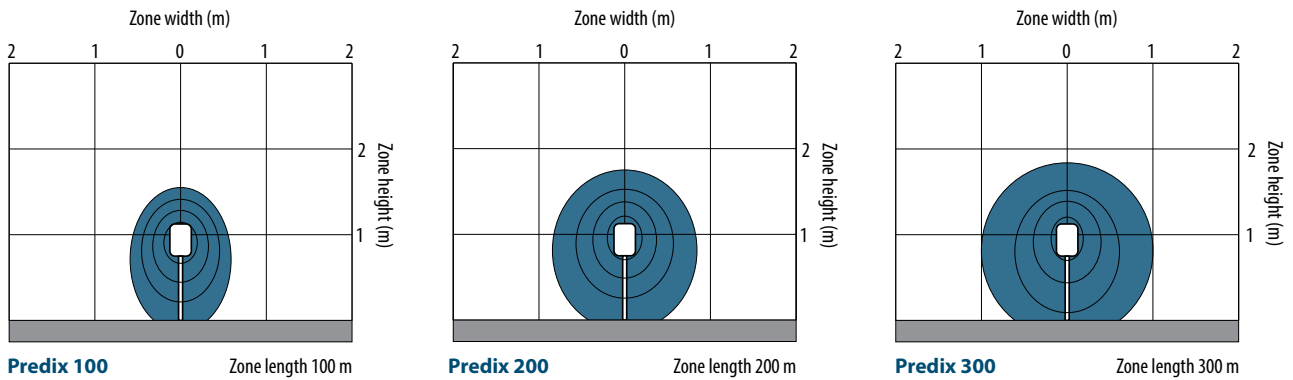
The software has a simple, user-friendly graphical interface, which makes the setup very easy and fast.

It can be downloaded from Umirs Europe's website:

www.umirs.eu

MAIN INFORMATIONS OF THE DETECTION ZONES

Predix 100 — Zone length 100 m

Predix 200 — Zone length 200 m

Predix 300 — Zone length 300 m

Zone length 100 m
Zone length 200 m
Zone length 300 m

Maximum length of protection zone: 300 m
Maximum width of protection zone: 2 m
Maximum height of protection zone: 1.8 m

Installation height: 0.8-0.9 m

Maximum depth of snow on the ground: 0.5 m

Maximum depth of grass on the ground: 0.3 m

Dead zone 3.5-5 m

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TYPICAL PREDIX CONFIGURATION INSTALLATION
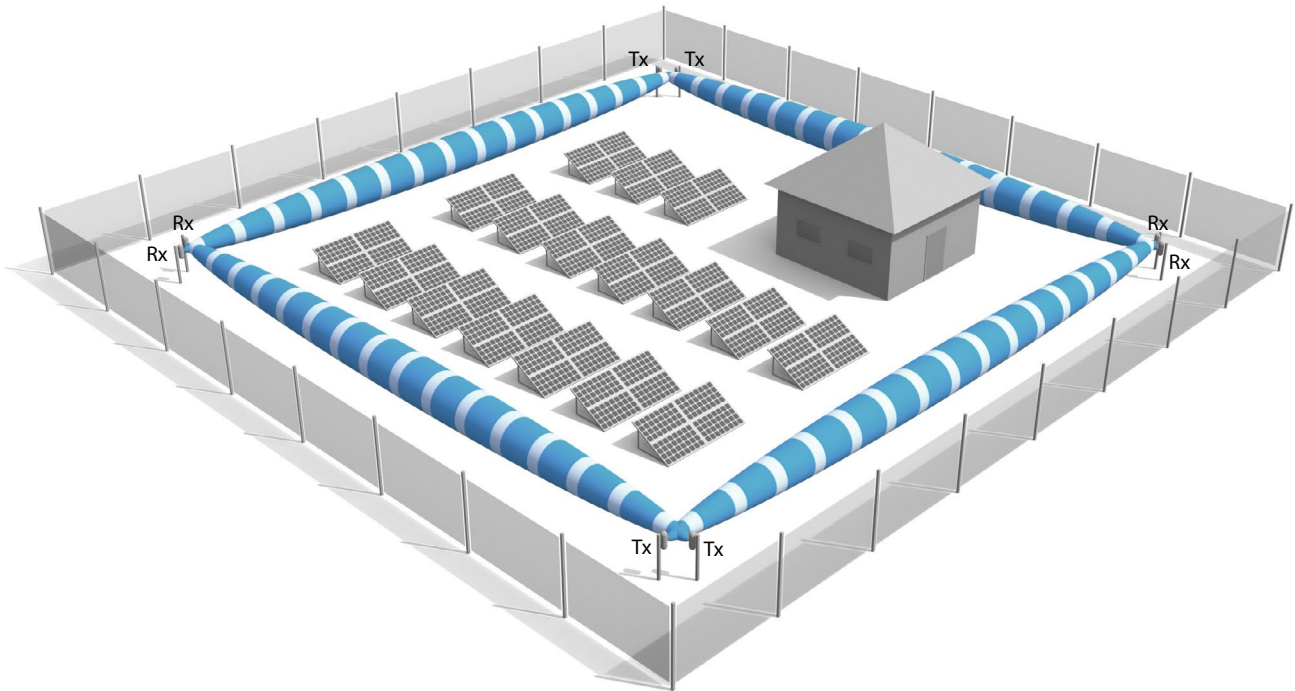
DEVON SUPERVISORY SYSTEM

Predix™ is integrated into **DEVON**, the new supervisory system of Umirs Europe.

With this new map-based software we are capable to monitor different type of sensors and detectors, receive alarms and faults, control PTZ cameras or other security devices through the integrated I/O modules.

Maximum 255 Devon I/O modules can be connected to the PC server on USB, RS485 or ethernet interface Each I/O module has 8 in and 8 output contact, but this number can be increased by 2 relay cards, with 4-4 relay outputs.

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ACCESSORIES

■ USB/RS485 WP2

USB/RS485 converter is used for programming Predix detectors with the free Predix control panel software.

Waterproof casing.

■ PRT

PRT is a programming rugged tablet with android application for Predix microwave barriers. Water and dustproof casing.

■ RADON/PREDIX-PO

Radon/Predix-PO is an aluminium pole with pre-drilled base for microwave detectors like Predix or Radon MRS.

Height: 100cm.
Diameter 5cm.
Colour: Grey.

TECHNICAL FEATURES

Detection range	100 / 200 / 300 m
Detection zone height	1,6-1,8 m
Detection zone width	1,2 / 1,6 / 2 m
Clear zone width	2,4 / 3,2 / 4 m
Power supply	9-36 VDC
Current consumption	128 mA (TX), 170 mA (RX)
Operation frequency	24,0 – 24,25 GHz
Channels	250 (in 1MHz steps)
Network addresses	255
Communication	via RS-485
Software languages	English, Russian, Czech, Portuguese
Outputs	1 OC alarm output
Operating temperature	-40 – +65 C°
Protection	IP 65