



EXPLORER BUS



Microwave barrier for outdoor mounting

PERIMETER PROTECTIONS

The EXPLORER BUS barrier benefits from Tecnoalarm's decades of experience in producing perimeter protections for high security sites, such as large industrial areas, photovoltaic parks, warehouses, airports etc.

The barrier, made with microwave technology, projects a beam of electromagnetic waves along the side to protect, which constitutes a sensitive barrier to intrusion attempts. Thanks to the excellent features of the casing, the barrier is highly immune against light sources and RFI/EMI interferences. It is available in three models with ranges of 60, 120 and 220 meters. The possibility of programming the transmission channels with different operating frequencies allows to realize protection configurations in which several barriers work next to each other without causing interferences.

The analyzing and programming tools of the RSC® technology permit the control and maintenance of the barrier's efficiency.



Configuration window showing settings for the EXPLORER BUS barrier.

Configuration window tabs: Zones, Zones-Functions, Zones-Programs, Zones-Options, Consoles, Keypoints, Options, Outputs, Bus sirens.

Zone: 13, Module 2, Z3, Copy

Description: [Empty text box]

☐ Voice message

Zone configuration

Type: Direct

Cycles: 1 cycle

Loop wiring: SENSOR BUS, S bus

Activations in minutes: 0

Detector

Technology: Barrier

Type: EXPLORER BUS 2200

Configuration

Sensitivity: normal

Channel TX: Channel 1

FAIL: disabled

Supervision: disabled

Masking time: disabled

Antimasking active: if prog. armed

Sensitivity - Response time: 500 msec

low high

OK, Abandon, ?

Programming

Model

Selection of the barrier model

Sensitivity/Response time

Setting of the barrier response time

Sensitivity

Setting of the range, i.e. the width of the beam

Channel TX

Selection of the transmission channel

FAIL

Enabling and disabling of the failure signaling

Supervision

Enabling and disabling of the supervision function
(functioning test of the TX)

Masking time

Minimum persistence time of the masking signal before the alarm is released

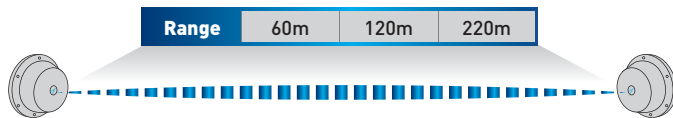
Antimasking active

Binding or not of the antimasking control activation to the program status



EXPLORER BUS 600		TX + RX	4 CHANNELS	RANGE 60m	IP65 WEATHER RESISTANT
Item no. F102EXPBUS600					
EXPLORER BUS 1200		TX + RX	4 CHANNELS	RANGE 120m	IP65 WEATHER RESISTANT
Item no. F102EXPBUS1200					
EXPLORER BUS 2200		TX + RX	4 CHANNELS	RANGE 220m	IP65 WEATHER RESISTANT
Item no. F102EXPBUS2200					

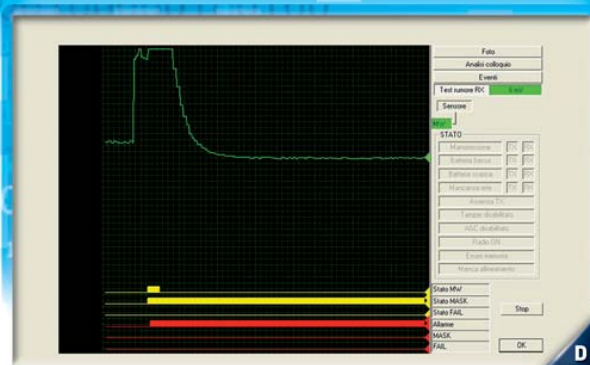
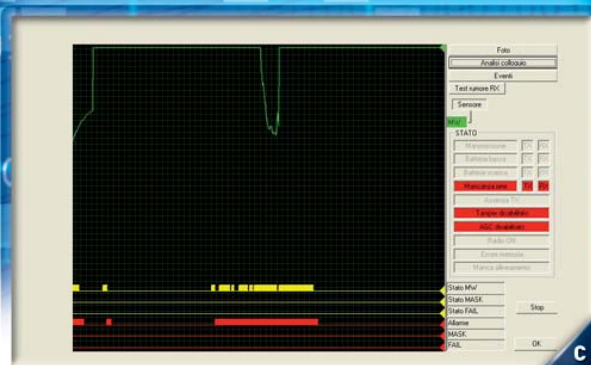
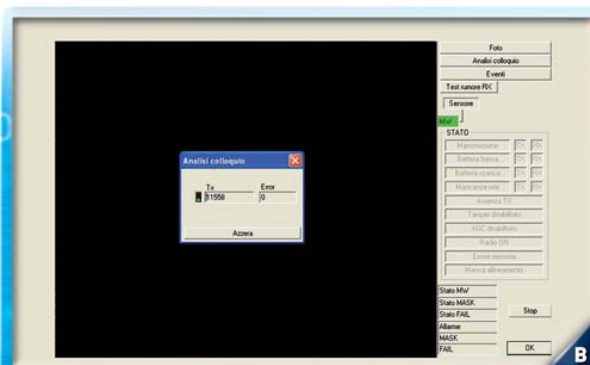
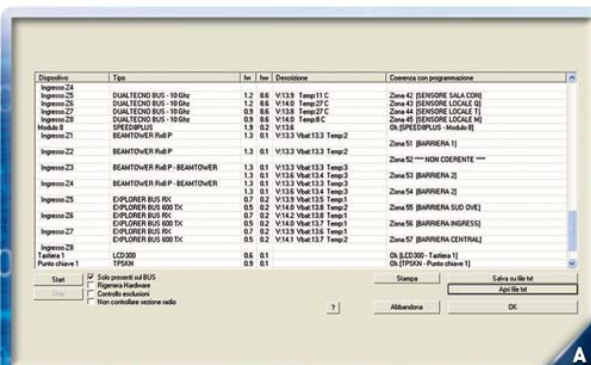
Configuration



Perimeter with 4 sides

EXPLORER BUS - Technical and functional specifications

Detection	Explorer Bus 600	Max. range 60 meters	Power supply AC	Rated voltage	18V AC
	Explorer Bus 1200	Max. range 120 meters		Max. consumption TX	260mA @ 18V AC
	Explorer Bus 2200	Max. range 220 meters		Max. consumption RX	100mA @ 18V AC
	MW frequency	10.525GHz (pulse 50%)	Power supply DC	Operating voltage	9...15V DC
	Transmission channel frequency	5KHz - 6KHz 7KHz - 8KHz		Rated voltage	13.8V DC
	Transmission power	≤500mW		Max. consumption TX	115mA @ 13.8V DC
Connection	RS485 serial bus	Sensor Bus		Max. consumption RX	45mA @ 13.8V DC
Programming	Response time	4 settings	Battery	Max. capacity	1x 12V/2.1Ah
	Sensitivity	5 settings		Max. recharge voltage	240mA
	Transmission channel	4	Physical specifications	Operating temperature	-25°C...+55°C
	Failure signal	Excludable		Protection class	IP65
	Supervision	Excludable		Casing	Aluminum and ABS
	Masking time	4 settings		Dimensions (L x H x D)	310 x 310 x 239.5mm
	Antimasking	2 modes		Weight	14.4kg
Anti-tamper protection	Anti-opening	Mechanical (micro-switch)			
	Anti-climb-over	Mechanical			





Hardware coherence check

This tool identifies the devices and draws a system overview containing all the necessary information to verify the correct installation.

A



Network analysis

This tool constantly monitors the communication between the devices connected to the RS485 serial buses: Serial Bus, Sensor Bus and Siren Bus.

B



Alignment monitor

This tool monitors the barrier alignment, comparing the level of the captured signals with the reference values recorded during the initial alignment.

C



Noise test

This tool views the graph of electrical noise which may interfere with the alarm threshold of the barrier.

D



Event log

This tool contains all the events relating to the system's functioning. The events are stored with indication of date and time.

E



Alarm graphs

The alarms coming from the RSC® detectors are stored in the event buffer of the system with a graph of functioning at the moment the alarm has occurred.

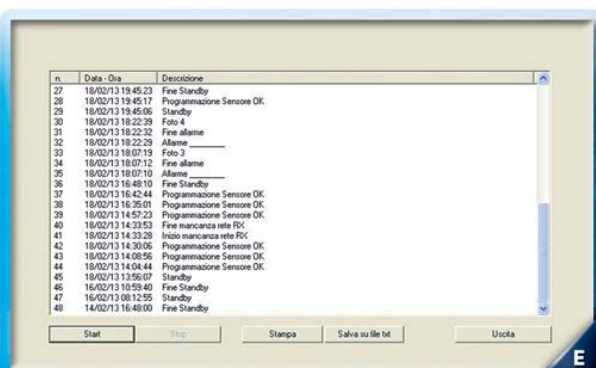
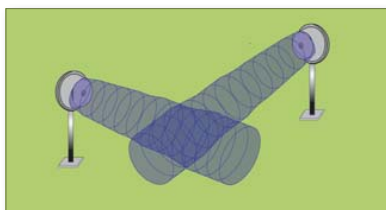
F



Functioning monitor

This tool permits the real time control of functioning of the RSC® detectors.

G



E



F



G