BRAVO EXT
Wireless Control Panel

EN 50131
GRADE 2 Class II

Description

BRAVO EXT is a wireless control panel with external power supply unit - AC-DC adapter. The panel is suitable for intruder alarm security and protection of small home and residential sites.

Up to 16 wireless detectors BRAVO series (PIR, MC, FL and FD type) can be enrolled to the panel as every detector represents security of one zone in the site. The BRAVO EXT panel is easy for installation, maintenance and operation, providing to the user two arming modes (Full and Partial), and also remote programming and management via MobileTTE* smart phone application. BRAVO EXT wireless control panel is certified to EN50131, GRADE 2, Class II.

Technical Specifications

Power supply . . . . AC-DC adapter 5VDC/1A
Consumption. 200mA
Backup power supply (battery). . . . 1 x 3.7V/ 4100mAh, Li-Po type
Operation frequency . . . . 868-869Mhz (Adaptive Frequency Agility Algorithm)
Communication type . . . . two-way
Built-in siren 1; 85dB
Operation temperature . . . . -10°C ÷ +40°C
Relative humidity . . . . 93% @ +30°C
Dimensions . . . . 220 x 160 x 38 mm
Weight 1.223kg
Material . . . . ABS plastic

Functional Specifications

- Quick and easy installation in the protected site
- Tamper switch for self-protection of the box
- Reset jumper for restoring the factory settings
- LED indication for zone and system status
- 16 zones
- 8 remote key fobs
- 1 built-in and 1 outdoor siren
- 300 memory log events
- 2 slots for mounting of optional communication modules

Programming

- **ProsTE** software
- **AjaxWEB*** user interface

Management

- **MobileTTE*** smart phone application
- **AjaxWEB*** user interface

Note: Requires installer BRAVO GPRS/LAN module to the system configuration.

Contact Information

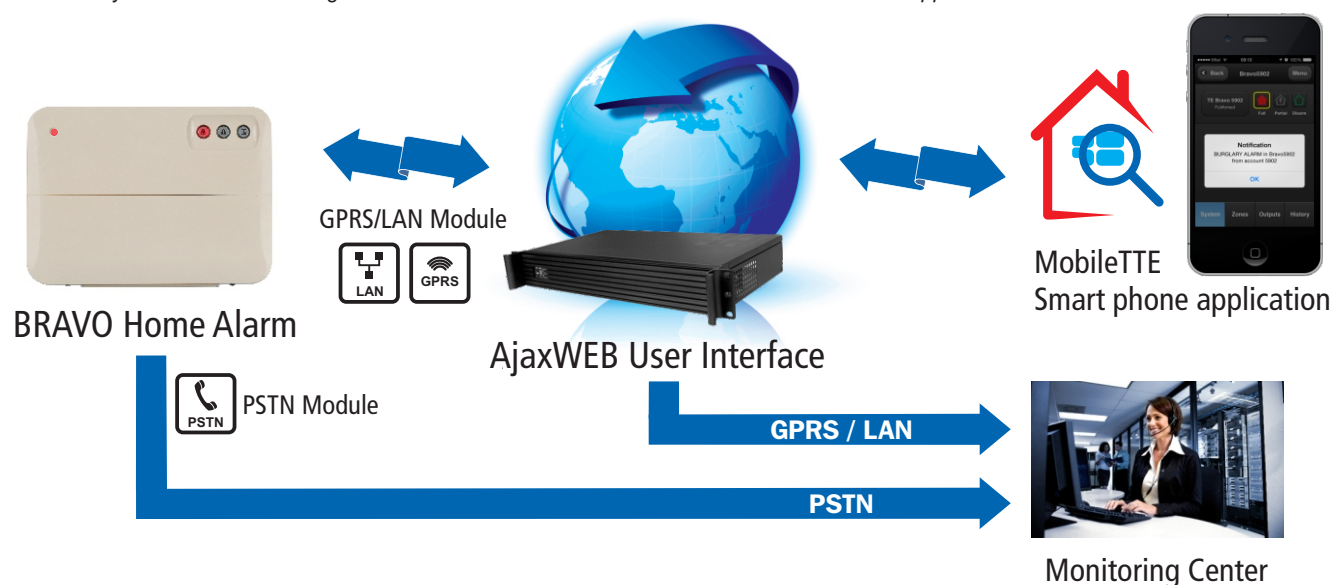**Teletek Electronics JSC**
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Operation Diagram

• *GPRS/LAN Teletek Electronics communication module and AjaxWEB are a must for Mobile TTE.*
• *Availability for 24-hour monitoring and intuitive user interface via AJAX SP Cloud Service web application.*

GPRS/LAN Module

LAN   **GPRS**

BRAVO Home Alarm

PSTN PSTN Module

AjaxWEB User Interface

GPRS / LAN

PSTN

MobileTTE
Smart phone application

Monitoring Center

Packing Information

• **Single packing box -** 1 unit BRAVO EXT, dimensions 225 x 167 x 50 mm
• **Master packing box -** 12 units BRAVO EXT, dimensions 500 x 367 x 230 mm

BRAVO KIT SETS

BRAVO EXT wireless panel is available in kit set with a range of wireless devices prepared for direct mounting in the protected site without need of enrolment and other settings. The kits set includes various devices and modules as option.
For more information about the BRAVO kit contents ask for details your local distributer.

Compatible Product Range

• **BRAVO PIR** - Wireless passive infrared motion detector, indoor
• **BRAVO PIR EXT GJD** - Wireless passive infrared motion detector, outdoor
• **BRAVO Curtain** - Combined PIR and MW detector, "curtain" type, outdoor
• **BRAVO MC** - Wireless magnetic contact, indoor
• **BRAVO FL** - Wireless flood detector, indoor
• **BRAVO FD** - Wireless fire alarm combined (optical-smoke and heat) detector, indoor
• **BRAVO RC** - Bi-directional key fob remote control
• **BRAVO RC41** - One-way key fob, 4 buttons
• **BRAVO RC21** - One-way key fob, 2 buttons
• **BRAVO RC11** - One-way key fob, 1 button

• **BRAVO SR200** - Wireless sounder (115dB), outdoor
• **BRAVO SR300 Li** - Wireless sounder (110dB), Lithium battery type, outdoor
• **BRAVO SR300 ALK**- Wireless sounder (110dB), Alkaline battery type, outdoor
• **BRAVO TTE GPRS** - GPRS communication module
• **BRAVO LAN** - LAN communication module
• **BRAVO PSTN** - PSTN communication module
• **BRAVO PSTN VD** - PSTN communication module with voice messaging
• **BRAVO MOUT** - Communication module with outputs (connection to radio transmitter and PGM control)
• **Power adapter** - AC-DC adapter 5VDC/1A

Contact Information

PAX FD

Wireless Fire Alarm Detector

PAX WIRELESS SERIES

- Two-way Type of RF communication
- Combined – Heat and Smoke detection
- 24-hour fire alarm supervised zone

PAX FD is a wireless combined fire alarm detector – with optical smoke and heat parts. The detector is compatible for operation with:

- BRAVO Next wireless control panel, for building of fully wireless security systems.
- PAX WL Expander module, for building of hybrid security systems with Eclipse series control panels.

The exceptional performance of the detector is possible, thanks to our improved wireless communication protocol Beacon+.

Features

- Bi-directional type for wireless communication
- Jamming detection and communication channels encryption
- Wireless communication range(open space) - up to 1500m
- Signal strength indication (RSSI)
- Standard type of batteries – CR123A
- 24-hour fire alarm supervised zone
- Rate-of-rise heat part, 10°C/min (max 60°C)
- Optical chamber auto compensation
- Tamper switch for self-protection of the box
- Events transmitted: Fire, Tamper activation, Low battery
- Installation method - Indoors

Technical Specifications

Operation frequency:	~ 868MHz
Communication type:	Bi-directional
Wireless communication range (open space):	up to 1500m
Class* for the heat part	A1/R
Sensitivity	RoR 10°C/min (max 60°C)
Battery (type CR123A)	2 x 3 V/ 1500mAh
Battery life	~ 4 years
Low voltage threshold	2.6V
Current consumption (TX/Standby)	26 mA / 4 µA
Operating temperature range:	from -10°C to +50°C
Enclosure box:	ABS plastic, white
Dimensions	Ø103 x 56 mm

Category, according EN 54-5:2017+A1:2018

Last update: 03. 2023

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PAX FL

Wireless Flood Detector

PAX
WIRELESS SERIES

- Two-way wireless communication
- On-board signal strength indicator
- Bi-color LED – red / green

PAX FL is a wireless flood detector with two main parts – control body and water sensor. PAX FL is compatible for operation with:

- BRAVO Next wireless control panel, for building of fully wireless security systems.
- PAX WL Expander module, for building of hybrid security systems with Eclipse series control panels.

The exceptional performance of the detector is possible, thanks to our improved wireless communication protocol Beacon+.

Features

- Bi-directional type for wireless communication
- Jamming detection and communication channels encryption
- Wireless communication range(open space) - up to 1500m
- Signal strength indication (RSSI)
- Standard type of batteries – CR123A
- 24-hour alarm zone for prevention of flooding
- Front cover and rear (anti-tear) tamper
- Bi-color LED
- Events transmitted: Zone alarm, Tamper activation, Low battery

Technical Specifications

Operation frequency:	~ 868MHz
Communication type:	Bi-directional
Radio distance (open space):	up to 1500m
Hardware water sensor input	1
Connection wires	2x0.35mm, 2 meters long
Battery (type CR123A)	1 x 3 V/ 1500mAh
Battery life (max. without LED)	~ 7 years
Low voltage threshold	2.6V
Current consumption (TX/Standby)	26 mA / 4 μA
Operating temperature range:	from -10°C to +50°C
Enclosure box:	ABS plastic, white
Dimensions (control body) Dimensions (water sensor)	22 x 92 x 25 mm 64 x 19 x 13 mm

Last update: **03. 2023**

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PAX KBD

Wireless Control Keypad

- LED indication keypad with compact design
- System status, faults and memory indication
- Backlight of the buttons activated via proximity sensor

PAX KBD is a wireless control LED keyboard for operation with Eclipse and Bravo Next panels. The keypad is equipped with a wide-angle detection dual sensor for automatic activation of the buttons backlight in case of movement in front of it.

The built-in light sensor detects the amount of ambient light in the room and controls the keyboard backlight activation for improving the battery life and conserve more energy.

Features

- Bi-directional type for wireless communication
- Jamming detection and communication channels encryption
- Wireless communication range(open space) - up to 1500m
- Standard type of batteries – CR123A
- Arming (Full or Stay Arming Mode) and Disarming of the system
- LED indication for system status – armed, disarmed, technical trouble, memory events
- Built-in sensors for buttons backlight activation and ambient light
- Bracket for easy wall mounting
- Installation method - Indoors

Technical Specifications

Operation frequency:	~ 868MHz
Communication type:	Bi-directional
Radio distance (open space):	up to 1500m
Indication type	LED
Battery (type CR123A)	2 x 3 V / 1500mAh
Battery life	~ 1,5 years
Operating temperature range:	from -10°C to +50°C
Enclosure box:	ABS plastic, white
Dimensions	102 x 84 x 25 mm

PAX MC1

Wireless Magnetic Contact with One Input

- Magnetic door/window protection
- Two-way type of RF communication
- Additional wired zone input

PAX MC1 is a wireless magnetic contact for detection of door or window opening. PAX MC1 is compatible for operation with:

- BRAVO Next wireless control panel, for building of fully wireless security systems.
- PAX WL Expander module, for building of hybrid security systems with Eclipse series control panels.

The detector also has an additional wired zone input suitable for connecting of wired magnetic contacts. The operation of wireless magnetic contact is programmable, through the settings of the control panel.
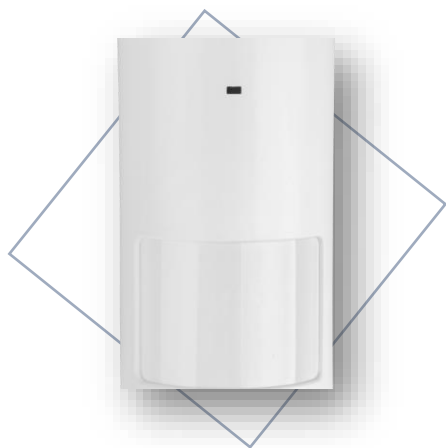
Features

- Bi-directional type for wireless communication
- Jamming detection and communication channels encryption
- Wireless communication range(open space) - up to 1500m
- Signal strength indication (RSSI)
- Standard type of batteries – CR123A
- 1 wired zone input
- Front cover and rear (anti-tear) tamper
- Bi-color LED activation on open (red) / close (green)
- Events transmitted: Zone open/close, Tamper activation, Low battery
- Installation method - Indoors

Technical Specifications

Operation frequency:	~ 868MHz
Communication type:	Bi-directional
Radio distance (open space):	up to 1500m
Hardware zone input	1
Reed switches	2
Battery (type CR123A)	1 x 3 V/ 1500mAh
Battery life (max. without LED)	~ 8 years
Low voltage threshold	2.6V
Operation distance	10-24mm
Operating temperature range:	from -10°C to +50°C
Enclosure box:	ABS plastic, white/ brown
Dimensions:	22 x 92 x 25 mm

Last update: 03. 2023

PAX PIR

Wireless Motion Indoor PIR Detector

- Energy saving mode
- Adjustable pulse filter
- Automatic temperature compensation

PAX PIR is a indoor wireless passive infrared detector for detecting of movement. The detector is compatible for operation with:

- BRAVO Next wireless control panel, for building of fully wireless security systems.
- PAX WL Expander module, for building of hybrid security systems with Eclipse series control panels.

The exceptional performance of the detector is possible, thanks to our improved wireless communication protocol Beacon+.

Features

- Bi-directional type for wireless communication
- Jamming detection and communication channels encryption
- Signal strength indication (RSSI)
- Standard type of batteries – CR123A
- Energy saving mode
- Front cover and rear (anti-tear) tamper
- Adjustable pulse filter – 1 or 2 pulses
- Automatic temperature compensation
- Events transmitted: Detection of movement, Tamper activation, Low battery
- 54 Detection zones
- PET Immunity Up to 10kg
- Coverage angle - 90°
- Installation method - Indoors

Technical Specifications

Operation frequency:	~ 868MHz
Communication type:	Bi-directional
Radio distance (open space):	up to 1500m
Walk detection speed	0.3 m/s - 3.0 m/s
Battery (type CR123A)	1 x 3 V / 1500mAh
Battery life (max. without LED)	~ 6 years
Low voltage threshold	2.6V
Current consumption (TX/Standby)	26 mA / 4 µA
White light immunity	4500 Lux
Operating temperature range:	from -10°C to +50°C
Enclosure box:	ABS plastic, white
Dimensions:	63 x 118 x 55 mm

Last update: 03. 2023

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PAX RC

4 Key Remote Control

- Two-way communication
- 2 operational buttons – arm/disarm and 2 programmable buttons
- Key lock function

PAX RC is a 4 button remote control. PAX RC is a fully configurable high-performance wireless remote control. The two-way communication allows a visual (LED) confirmation to be displayed for the commands sent to the control panel.

PAX RC is compatible for operation with:

- BRAVO Next wireless control panel, for building of fully wireless security systems.
- PAX WL Expander module, for building of hybrid security systems with Eclipse series control panels.

The exceptional performance of the remote control is possible, thanks to our improved wireless communication protocol Beacon+.

Features

- Bi-directional type for wireless communication
- Jamming detection and communication channels encryption
- Wireless communication range(open space) - up to 1500m
- Standard type of batteries – CR2450
- Functions: Arm, Disarm
- Two buttons with programmable functionality
- Key lock function

Technical Specifications

Operation frequency:	~ 868MHz
Communication type:	Bi-directional
Wireless communication range (open space):	up to 1500m
Low voltage threshold	2.6 V
Absorbed current (TX / Standby)	16 mA / 2 µA
EMC Immunity	EN 50130-4
Battery	1x3V/600mAh, CR2450 type
Battery life	~ 4 years
Operating temperature range:	from -10°C to +50°C
Enclosure box:	ABS plastic, white
Dimensions	66 x 35 x 12 mm

PAX SR INTR

Wireless Indoor Siren

- Powerful piezoelectric siren
- Indoor application
- Compact size and modern design

PAX SR INTR is a wireless siren for indoor mounting. The siren is compatible for operation with:

- BRAVO Next wireless control panel, for building of fully wireless security systems.
- PAX WL Expander module, for building of hybrid security systems with Eclipse series control panels.

Features

- Bi-directional type for wireless communication
- Jamming detection and communication channels encryption
- Wireless communication range (open space) - up to 1500m
- Signal strength indication (RSSI)
- Comfort LEDs for various status indications (red and green)
- Adjustable alarm tone volume - 4 levels
- Acoustic pressure: 102dB/1m
- Long battery life - ~ 7 years
- Indoor Use
- Compact size

Technical Specifications

Operation frequency:	~ 868MHz
Communication type:	Bi-directional
Radio distance (open space):	up to 1500m
Sound level	102dB/1m
Alarm tone duration (programmable)	1-3min
Tone frequency range	2700-3300Hz
EMC Immunity	EN50130-4:2011+A1:2014
Battery (battery package)	4 x 3V CR17450 package
Battery life	~7 years
Operating temperature range:	from -10°C to +50°C
Enclosure box:	ABS plastic, white
Dimensions	110 x 58 mm

Last update: 03. 2023

TELETEK

BRAVO LAN
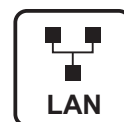## LAN Communication module

$\mathsf{C}\,\mathsf{E}$

Description

BRAVO LAN is a communication module designed for operation in BRAVO wireless intruder alarm systems.

The module is mounted into BRAVO panel via serial interface connection. The BRAVO LAN module sends messages for events to the user via MobileTTE smart phone application. The module can be programmed via ProsTE software or AJAX SP user web interface.

BRAVO LAN can also be used for remote management, programming and monitoring of the BRAVO system via AJAX SP user web interface.

Technical and Functional Specifications

- Built-in mounting in BRAVO panel
- Serial interface connection on slot
- Remote control via AjaxWEB* user interface or MobileTTE** smart phone application
- Internet (AJAX SP software) remote programming of the BRAVO panel
- Push Notification messages for events to user via AJAX SP (to MobileTTE)
- LAN Settings - Manual or Automatic (DNCP)
- Direct programming via ProsTE software
- Remote control, management and programming via AJAX SP software and MobileTTE application

AJAX SP is part of Ajax Server installation.
*** MobileTTE is free mobile application for iOS or Android devices.*

Control and Management

- **MobileTTE** - Free of charge smart phone application

Packing Information

- **Single packing box -** 1 unit BRAVO LAN, dimensions 107 x 31 x 76mm

Compatible Product Range

- **BRAVO EXT** - Wireless panel with external power supply
- **BRAVO INTR** - Wireless panel with built-in power supply

Contact Information