Teletek Electronics JSC is the largest Bulgarian manufacturer of a complete range of alarm and fire alarm systems. The company was founded in 1991 and quickly established itself as a leader in the domestic and international markets.

What we have achieved for 30 years:
- Continuous innovation – more than 650 own developed products
- More than 190 employees;
- Export in more than 85 countries worldwide;
- More than 30 million manufactured products;
- Almost a million buildings, secured by Teletek Electronics’ systems.

To create a safer world!
We design, create, implement, optimize and maintain technologies that protect people’s lives and safety.
We strive to make Teletek Electronics a leading security and fire alarm company in every country in which we operate and achieve sustainable and quality growth with a clear understanding of the responsibilities we carry to our Employees, Customers, Partners and surrounding community.
We protect people through safe, high-tech, innovative life-saving products and security alarm systems.
We are aware of the major global trends and challenges and strive to constantly evolve through increasingly innovative, high-tech and quality products.

Our Values
- **Quality** - without compromise. In everything – products, services, support, communications. We strive not only to meet the needs of our Customers, but to exceed them.
- **Excellence** - We strive every day to be better than yesterday and achieve new victories, delivering the highest quality and value possible through relevant solutions.
- **Team** - together we can do more! Together we are better! We help, collaborate, support, respect every member of the team regardless of age, gender, position.
- **Innovation** - We strive to understand our Customers’ needs and the constant changes in our industry and respond with innovations, improvements and new solutions.
- **Integrity** - noble, honest, open in all our actions and communications to colleagues, Customers and surrounding community
- **Simplicity** - no pretensions and fakes, only true value, both in communications and in the products we develop.
- **Partnership** - we believe that building and maintaining strong relationships is the key to our success. Through collaboration, support and great teamwork, working closely with all our customers, we aim to create and enjoy strong, lasting and long-term partnership.

*We look forward to work, grow, explore and enjoy the next coming years!*
ECLIPSE SERIES
Contemporary range of panels working with one and the same devices – expanders, keypads, software, etc.

Different types of programming: by addresses, by operations or using tree structure text menus.

Easy installation, programming and operation.

Automatic addresses for all devices in a configuration.

Innovative design.

<table>
<thead>
<tr>
<th></th>
<th>Eclipse 8</th>
<th>Eclipse 8+</th>
<th>Eclipse 16</th>
<th>Eclipse 32</th>
<th>Eclipse 99</th>
</tr>
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<tbody>
<tr>
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<td>6 + 2 keypad zones</td>
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<td>16</td>
<td>8 (16 with doubling)</td>
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<tr>
<td>Max. Zones</td>
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<td>16</td>
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<td>32</td>
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<tr>
<td>Max. PGM Outputs</td>
<td>5 on board</td>
<td>8 (5 on board)</td>
<td>8 (5 on board)</td>
<td>32 (5 on board)</td>
<td>99 (5 on board)</td>
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<tr>
<td>Areas</td>
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<tr>
<td>Zone 8 expander module</td>
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<td>×</td>
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<td>32</td>
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<tr>
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<td>×</td>
<td>32</td>
<td>32</td>
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<td>User codes or proxy cards</td>
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<td>Event log</td>
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<td>1024</td>
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<tr>
<td>Power supply</td>
<td>1A</td>
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<td>GRADE 2, Class I</td>
<td>GRADE 2, Class I</td>
<td>GRADE 2, Class I</td>
<td>GRADE 2, Class I</td>
<td>GRADE 3, Class I</td>
</tr>
</tbody>
</table>
ECLIPSE 8
INTRUDER ALARM PANEL

- Simple entry level solution
- Full programming via keyboard or directly with ProsTE software

Eclipse 8 is an alarm panel with 8 zone inputs for security of small residential, commercial and office premises. The control management of the panel is available via keyboard or proximity card reader. Full programming is done via keyboard or directly with ProsTE software. Remote control and monitoring via Home ProTTEct iOS/Android* application. The installer can choose between 3 alternative types of programming - by addresses, by operations or using tree structure text menus. The panel has a built-in PSTN digital communicator and is compatible with wide range of detectors, communication modules and control devices.

Eclipse 8 Alarm Control Panel is EN50131 GRADE2 Class I, category SP2 certified.

* Requires mounted GRRS/LAN communication module to the control panel.

Zone Inputs:
- 6 physical inputs on the control panel for connection of detectors
- + 2 zone inputs in the connected keyboards/proxi readers.

Zones:
- 8, with freely programmable parameters.

Zone wiring:
- 5 types, single connection style.

Areas:
- 1

Second entry time per area: ✓

Outputs:
- 4 weak (up to 100mA) and 1 powerful (up to 1A) programmable outputs OC (open collector) type, situated on the control panel.
- Range of activation events for outputs management.
- Available programming of PGM4 for operation with TP2000 transmitter on serial connection.

Access codes:
- 4-digit; 8 User codes (1 Manager + 7 Users), 1 Engineer code.

Memory LOG:
- 1024 memory events with date and hour of occurring – can be viewed via keyboard, ProsTE software or Home ProTTEct iOS/Android application, or optional reported via Eclipse VD module.

Report to monitoring:
- Built-in digital communicator for telephone line reporting – CID and SIA protocols supported.

Peripheral devices:
- Up to 2 devices connected to the system bus:
  - LCD and LED Keyboards
  - Proximity card readers

Programming:
- 3 programming menu styles:
  - By addresses
  - By operations
  - Text menus (tree structure)

Technical Specifications
- Mains Power Supply: ...................... 230VAC +10%/-15%
- Frequency: ...................................... 50-60Hz
- Mains Transformer: ......................... 17VAC/17VA
- Back-up Power Supply:.................... Accumulator 12V/7Ah
- Consumption of the control panel:. 100mA
- Connecting Wires:......................... 2.5mm²
- Enclosure: ........................................ ABS plastic box, white
- Working Temperature Range:............ from -10°C to +50°C
- Storage Temperature Range: ......... from -20°C to +60°C
- Dimensions:...................... 290x240x80mm

Installer Advantages
- ESD protection against storm discharge
- Real time view of the resistance on each zone
- Real time view of the communication quality on the BUS
- Three types of programming menus
- Service keypad interface on board
- Full remote management (programming) of the system through Internet
- Free of charge software ProsTE and Home ProTTEct iOS, Android
- Micro USB port for programming and firmware update*
- Status indicator on each device for: short circuit, low voltage and wiring error on the bus

* Available for Eclipse 8 HW 2.0 version and higher
ECLIPSE 8+
INTRUDER ALARM PANEL

- Middle entry level solution
- Full programming via keyboard or directly with ProsTE software

Eclipse 8+ is an alarm panel with 8 physical zone inputs and 3 independent areas (partitions) for security of middle size residential, commercial or office premises. Eclipse 8+ has 8 physical inputs on board for connecting of detectors. The full configuration of 16 zones can be realized with doubling zone connection and 1 Zone expander modules for 8 zones. Full programming is done via keyboard or directly with ProsTE software. Remote control and monitoring via Home ProTEct iOS/Android* application. The installer can choose between 3 alternative types of programming - by addresses, by operations or using tree structure text menus. Eclipse 8+ Alarm Control Panel is EN50131 GRADE2 Class I, category SP2 certified.

* Requires mounted GRRS/LAN communication module to the control panel.

### Zone Inputs:
8 physical inputs on the control panel for connection of detectors.

### Zones:
Up to 16, with freely programmable parameters.

### Zone wiring:
9 types, single or doubling connection style.

### Areas:
3

### Second entry time per area:
✓

### Outputs:
4 weak (up to 100mA) and 1 powerful (up to 1A) programmable outputs OC (open collector) type. 3 logical programmable outputs. Range of activation events for outputs management.

### Access codes:
4-digit; 32 User codes [1 Manager + 31 Users], 1 Engineer code.

### Memory LOG:
1024 memory events with date and hour of occurring – can be viewed via keyboard, ProsTE software or Home ProTEct iOS/Android application, or optional reported via Eclipse VD module.

### Report to monitoring:
Built-in digital communicator for telephone line reporting – CID and SIA protocols supported. TTE GPRS Standard/TTE GPRS Simple/TTE LAN communication modules.

### Peripheral devices:
Up to 5 devices connected to the system bus:
- LCD and LED Keyboards
- Proximity card readers
- Zone and WL Expanders

### Programming:
3 programming menu styles:
- By addresses
- By operations
- Text menus (tree structure)

---

### Technical Specifications

- **Mains Power Supply:** 230VAC +10%/-15%
- **Frequency:** 50-60Hz
- **Mains Transformer:** 17VAC/23VA
- **Back-up Power Supply:** Accumulator 12V/7Ah
- **Consumption of the control panel:** 100mA
- **Connecting Wires:** 2.5mm²
- **Enclosure:** ABS plastic box, white
- **Working Temperature Range:** from -10°C to +50°C
- **Storage Temperature Range:** from -20°C to +60°C
- **Dimensions:** 290x240x80mm

---

### Installer Advantages

- ESD protection against storm discharge
- Real time view of the resistance on each zone
- Real time view of the communication quality on the BUS
- Three types of programming menus
- Service keypad interface on board
- Full remote management (programming) of the system through Internet
- Free of charge software ProsTE and Home ProTEct iOS, Android
- Micro USB port for programming and firmware update*
- Status indicator on each device for: short circuit, low voltage and wiring error on the bus

* Available for Eclipse 8+ HW 1.1 version and higher
ECLIPSE 16
INTRUDER ALARM PANEL

• Middle entry level solution
• Full programming via keyboard or directly with ProsTE software

Eclipse 16 is an alarm panel with 16 physical zone inputs and 3 independent areas (partitions) for security of middle size residential, commercial or office premises. All 16 zones can be used on board connectors or with zone expander. Full programming is done via keyboard or directly with ProsTE software. Remote control and monitoring via Home ProTTEct (iOS/Android)* application. The installer can choose between 3 alternative types of programming - by addresses, by operations or using tree structure text menus. The panel has a built-in PSTN digital communicator and is compatible with wide range of detectors, communication modules and control devices.

Eclipse 16 Alarm Control Panel is EN50131 GRADE2 Class I certified, category SP2 certified.

* Requires mounted GRRS/LAN communication module to the control panel.

Zone Inputs: 16 physical inputs on the control panel for connection of detectors.

Zones: 16, with freely programmable parameters.

Zone wiring: 5 types, single connection style.

Areas: 3

Second entry time per area: ✓

Outputs: 4 weak (up to 100mA) and 1 powerful (up to 1A) programmable outputs OC (open collector) type. 3 logical programmable outputs. Range of activation events for outputs management.

Access codes: 4-digit; 32 User codes (1 Manager + 31 Users), 1 Engineer code.

Memory LOG: 1024 memory events with date and hour of occurring – can be viewed via keyboard, ProsTE software or Home ProTTEct (iOS/Android) application, or optional reported via Eclipse VD module.


Peripheral devices: Up to 5 devices connected to the system bus:
• LCD and LED Keyboards
• Proximity card readers
• Zone and WL Expanders

Programming: 3 programming menu styles:
• By addresses
• By operations
• Text menus (tree structure)

Technical Specifications
Mains Power Supply: ................. 230VAC +10%/-15%
Frequency: ......................... 50-60Hz
Mains Transformer: ................. 17VAC/23VA
Back-up Power Supply:............. Accumulator 12V/7Ah
Consumption of the control panel: 100mA
Connecting Wires: .................. 2.5mm²
Enclosure: ......................... ABS plastic box, white
Working Temperature Range: ....... from -10°C to +50°C
Storage Temperature Range: ....... from -20°C to +60°C
Dimensions: ....................... 290x240x80mm

Installer Advantages
• ESD protection against storm discharge
• Real time view of the resistance on each zone
• Real time view of the communication quality on the BUS
• Three types of programming menus
• Service keypad interface on board
• Full remote management (programming) of the system through Internet
• Free of charge software ProsTE and Home ProTTEct (iOS, Android)
• Micro USB port for programming and firmware update*
• Status indicator on each device for: short circuit, low voltage and wiring error on the bus

* Available for Eclipse 16 HW 1.5 version and higher
ECLIPSE 32
INTRUDER ALARM PANEL

- Hybrid solution with impressive functionality
- Up to 32 zones and 8 areas

Eclipse 32 is up to 32 zone control panel appropriate for security of medium sized commercial premises and offices. The panel supports 8 areas (partitions) with individual programming. Eclipse 32 has 8 physical inputs on board for connecting of detectors. The full configuration of 32 zones can be realized with doubling zone connection and/or Zone expander modules for 8 zones. Full programming is done via keyboard or directly with ProsTE software. Remote control and monitoring via Home ProTTEct (iOS/Android)* application. The installer can choose between 3 alternative types of programming - by addresses, by operations or using tree structure text menus.

Eclipse 32 Alarm Control Panel is EN50131 GRADE2 Class I, category SP2 certified.

* Requires mounted GRPS/LAN communication module to the control panel.

### Technical Specifications

- **Mains Power Supply:** ................. 230VAC +10%/-15%
- **Frequency:** .................................. 50-60Hz
- **Mains Transformer:** .................... 21VAC/50VA
- **Accumulator battery:** .................. 12V/7Ah
- **Current consumption:** ................. 100mA
- **Power output:** ......................... 13.8VDC/1A, resettable fuse
- **Operating temperature range:** .................. from 0°C to +50°C
- **Enclosure box:** ......................... ABS plastic, white
- **Dimensions:** ...................... 335x290x105mm

### Installer Advantages

- ESD protection against storm discharge
- Real time view of the resistance on each zone
- Real time view of the communication quality on the BUS
- Three types of programming menus
- Service keypad interface on board
- Full remote management (programming) of the system through Internet
- Free of charge software ProsTE and Home ProTTEct (iOS, Android)
- Micro USB port for programming and firmware update*
- Status indicator on each device for: short circuit, low voltage and wiring error on the bus
- 45 degrees terminals
- Color coded terminals
- Full Eclipse peripheral devices compatibility

* Available for Eclipse 32 HW 2.3 version and higher
**ECLIPSE 99**

**INTRUDER ALARM PANEL**

- High-end hybrid solution with time attendance functions
- Up to 99 zones and 16 areas

Eclipse 99 is up to 99 zone control panel appropriate for security of large commercial and office premises. The panel supports 16 areas (partitions) with individual programming. The panel has time attendance functions and allows the use of wireless devices via wireless expander modules. Full programming is done via keyboard or directly with ProsTE software. Remote control and monitoring via Home ProTTect (iOS/Android)* application.

The installer can choose between 3 alternative types of programming - by addresses, by operations or using tree structure text menus.

Eclipse 99 Alarm Control Panel is EN50131, GRADE3 Class I, category SP2 certified.

* Requires mounted GRRS/LAN communication module to the control panel.

---

**Zone Inputs:**

- 8 physical inputs on the control panel for connecting of detectors.

**Zones:**

- 99, with freely programmable parameters.

**Zone wiring:**

- 9 types, single or doubling connection style.

**Areas:**

- 16 independent

**Second entry time per area:**

- ✔

**Time attendance:**

- (via proximity card readers)

- 16 Time slots [tables] to manage the user access to the protected sites. Every time slot can be programmed individually according to the system requirements.

**Outputs:**

- 3 weak (up to 100mA), 1 powerful supervised siren (up to 1A), 1 relay situated on the control panel.

- Expanding up to 99 outputs using PGM expander module.

- Available programming of PGM4 for realization of two-wire connection of standard fire alarm bases.

**Access codes:**

- 4/6 digit; 99 User/Manager codes, 1 Maintenance code, 1 Engineer code.

**Memory LOG:**

- 5000 events with time and date - can be viewed by a keyboard, via ProsTE software or Home ProTTect (iOS/Android) application, or optional reported via Eclipse VD module.

**Report to monitoring station:**

- Built-in digital communicator for telephone line reporting - CID and SIA protocols supported.


**Peripheral devices:**

- Up to 30 devices connected to the system bus:
  - LCD and LED Keyboards
  - Zone, PGM and WL Expanders
  - Proximity card readers

**Programming:**

- 3 programming menu styles:
  - By addresses
  - By operations
  - Text menus [tree structure]

---

**Technical Specifications**

- **Mains Power Supply:** 230VAC +10%/-15%
- **Frequency:** 50-60Hz
- **Mains transformer:** 21VAC/50 VA
- **Accumulator battery:** 12V/7Ah
- **Current consumption of control panel:** 100mA
- **Power output (NC/NO):** 13.8VDC/2.5A fuse
- **Relay output:** 10A@250VAC, 10A@30VDC
- **Operating temperature range:** from 0°C to +50°C
- **Enclosure box:** ABS plastic, white
- **Dimensions:** 335x290x105mm

**Installer Advantages**

- ESD protection against storm discharge
- Real time view of the resistance on each zone
- Real time view of the communication quality on the BUS
- Three types of programming menus
- Service keypad interface on board
- Full remote management (programming) of the system through Internet
- Free of charge software ProsTE and Home ProTTect (iOS, Android)
- Micro USB port for programming and firmware update*
- Status indicator on each device for: short circuit, low voltage and wiring error on the bus
- 45-degree terminals
- Color-coded terminals
- Full Eclipse peripheral devices compatibility

*Available for Eclipse 99 HW 1.4 version and higher
Eclipse LED32/PR
- LCD keypad with silicon buttons
- Text display for 2x16 symbols organized into two rows
- Supports all 3 programming types
- Quick buttons for all arming modes
- Quick buttons for Memory, Troubles and Bypassed zones
- Adjustable intensity of backlight for the display and buttons
- 3 fast button combinations for sending of PANIC, MEDICAL and FIRE alarm messages to a central monitoring station
- Confidential mode
- Adjustable buzzer volume and text scroll up
- Bidirectional TAMPER switch
- Multi language support
- Built-in proxy card reader

Eclipse LCD32S PR
- LCD keypad with sensitive buttons
- Text display for 2x16 symbols organized into two rows
- Supports all 3 programming types
- Quick buttons for all arming modes
- Quick buttons for Memory, Troubles and Bypassed zones
- Adjustable intensity of backlight for the display and buttons
- 3 fast button combinations for sending of PANIC, MEDICAL and FIRE alarm messages to a central monitoring station
- Confidential mode
- Adjustable buzzer volume and text scroll up
- Bidirectional TAMPER switch
- Multi language support
- Built-in proxy card reader

Eclipse LCD32/PR
- LCD keypad with silicon buttons
- Text display for 2x16 symbols organized into two rows
- Supports all 3 programming types
- Quick buttons for all arming modes
- Quick buttons for Memory, Troubles and Bypassed zones
- 3 fast button combinations for sending of PANIC, MEDICAL and FIRE alarm messages to a central monitoring station
- Confidential mode
- Adjustable buzzer volume and text scroll up
- Bidirectional TAMPER switch
- Multi language support
- Built-in proxy card reader as option
- Eclipse LCD32 is EN50131 GRADE3 Class II certified

Eclipse LED32/PR
- LED keypad
- Indication for 32 zones and 8 areas
- Supports 2 programming types: by addresses and by operations
- Quick buttons for all arming modes
- Quick buttons for Memory, Troubles and Bypassed zones
- Adjustable intensity of backlight for the buttons
- 3 fast button combinations for sending of PANIC, MEDICAL and FIRE alarm messages to a central monitoring station
- Adjustable buzzer volume
- Bidirectional TAMPER switch
- Built-in proxy card reader as option

Eclipse LED16A VG
- LED keypad with voice guiding
- Voice messages announcing for system status and faults
- Indication for 16 zones and 3 areas
- Supports 2 programming types: by addresses and by operations
- Quick buttons for all arming modes
- Quick buttons for Memory, Troubles and Bypassed zones
- Adjustable intensity of backlight for the buttons
- 3 fast button combinations for sending of PANIC, MEDICAL and FIRE alarm messages to a central monitoring station
- Adjustable buzzer volume
- Bidirectional TAMPER switch
ECLIPSE
CONTROL DEVICES

Eclipse LED16A
- LED keypad
- Indication for 16 zones and 3 areas
- Supports 2 programming types: by addresses and by operations
- Quick buttons for all arming modes
- Adjustable intensity of backlight for the buttons
- 3 fast button combinations for sending of PANIC, MEDICAL and FIRE alarm messages to a central monitoring station
- Adjustable buzzer volume
- Bidirectional TAMPER switch
- Eclipse LED16A is EN50131 GRADE2 Class II certified

Eclipse LED8
- LED keypad
- Indication for 8 zones and 1 area
- Supports 2 programming types: by addresses and by operations
- Quick buttons for all arming modes
- 3 fast button combinations for sending of PANIC, MEDICAL and FIRE alarm messages
- Adjustable intensity of backlight for the buttons
- Adjustable buzzer volume
- Bidirectional TAMPER switch

Eclipse PR
- Proximity card reader
- Arming/Disarming and alarm clearing in many areas by means of proximity cards
- Sensitive buttons for Full Arm and Full Disarm,
- Sensitive buttons for special arming/disarming Modes A and B, programmed from the panel
- Indication of system arming mode (Full Arm, Disarm, Mode A, Mode B)
- Indication of card status (valid and not valid card)
- Audible signalling
- One output (100mA OC or Relay)
- One zone input

Eclipse PR IT
- Proximity card reader with LED indication
- Arming/Disarming of the system only with proximity cards and tags
- Special arming/disarming Modes A and B, programmed from the panel
- Small and compact design
- Designed for built-in installation in electrical sockets via specialized DIN box (on the picture)

Note: In the kit of the supplied equipment is included only the reader's PCB. The DIN box can be purchased separately.
ECLIPSE

MODULES

Eclipse VD
- Voice Dialer
- Plug-in card to the panel’s PSTN
- Up to 8 phone numbers for voice reporting
- Remote arm/disarm, output control, system status checking guided by voice
- Multilingual support
- Easy language update (languages are stored on micro SD card)

Eclipse Zone 8
- Zone expander
- Connection directly to the system bus
- 8 additional zone inputs with freely programmable parameters
- Additional PGM output, 100mA, OC type (open collector)
- Direct mounting in the Eclipse 32 panel’s box
- Stand-alone mounting in small universal plastic box SB-U
- Eclipse Zone 8 is EN50131 GRADE3 Class II certified

Eclipse PGM 8
- PGM expander
- Connection directly to the system bus
- 8 additional programmable outputs with freely programmable parameters, 100mA, OC type (open collector)
- Direct mounting in the Eclipse 32 panel’s box
- Stand-alone mounting in small universal plastic box SB-U

Eclipse Zone 8 PS
- Zone expander with independent power supply
- Connection directly to the system bus
- 8 additional zone inputs with freely programmable parameters
- Additional PGM output, 100mA, OC type (open collector)
- Mounting in a big universal plastic box PB-U*

* Note: In the kit of the supplied equipment is included only the module’s PCB. The module’s operation requires an external power supply 230 VAC, a transformer unit 17V/17VA and a back-up battery 12V/7Ah.

Eclipse PGM 8 PS
- PGM expander with independent power supply
- Connection directly to the system bus
- 8 additional programmable outputs with freely programmable parameters, 100mA, OC type (open collector)
- Mounting in a big universal plastic box PB-U*

* Note: In the kit of the supplied equipment is included only the module’s PCB. The module’s operation requires an external power supply 230 VAC, a transformer unit 17V/17VA and a back-up battery 12V/7Ah.

Eclipse WL Wireless Expander
- 868 MHz Band
- Two-way communication
- Frequency agility
- Up to 4 WL expanders to a single Eclipse control panel
- Up to 32 wireless devices BRAVO series (depends on the Eclipse control panel)
- Up to 99 remote controls BRAVO series (depends on the Eclipse control panel)
- Mounting in SB-U small plastic box
BRAVO SERIES
BRAVO BT
WIRELESS ALARM PANEL

• BRAVO BT is a wireless alarm panel with a built-in Bluetooth interface for home and residential security
• Full programming via BRAVO SetApp smart phone application

BRAVO BT is a wireless intruder alarm control panel suitable for installation in residential houses and small offices. The system is comfort to control via key fobs, wireless compact keypad, BRAVO SetApp or Home ProTTect (iOS/Android)* application. The installation is quick and very easy with a few simple settings at the beginning. The wireless configuration can be changed at any time with minimum efforts from the user.

Direct programming with ProsTE software and BRAVO SetApp.

As option GPRS, LAN, PSTN (Voice guide optional), MIO or MOUT communication modules can be added to the system configuration for programming via AJAX WEB application.

The BRAVO BT panels are certified according to the requirements of RED directive and EN 62368-1; certified to EN50131 GRADE2 Class II.

* Requires mounted BRAVO TTE GRRS/BRAVO LAN communication module to the control panel.

Functional Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation frequency</td>
<td>868MHz-869MHz</td>
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<tr>
<td>Type of indication</td>
<td>LED</td>
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<tr>
<td>Areas</td>
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<tr>
<td>Max. zones/detectors</td>
<td>16 (including PIR, MC, FL, FDI)</td>
</tr>
<tr>
<td>Max. remote controls</td>
<td>8 (including RC, RC-11/21/41, KBD)</td>
</tr>
<tr>
<td>Max. outdoor sirens</td>
<td>1; 115dB</td>
</tr>
<tr>
<td>Built-in sounder</td>
<td>85dB</td>
</tr>
<tr>
<td>Signal coding</td>
<td>✔</td>
</tr>
<tr>
<td>Memory LOG</td>
<td>300 events</td>
</tr>
<tr>
<td>Programming</td>
<td>BRAVO SetApp, ProsTE software</td>
</tr>
<tr>
<td>Communication, optional</td>
<td>GPRS, LAN, PSTN (VD), MIO, MOUT</td>
</tr>
<tr>
<td>Communication, built-in</td>
<td>Bluetooth</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
</tbody>
</table>

Bravo SetApp

Bravo SetApp is a smart phone application compatible for operation with iOS/Android platforms. The application is specially designed for programming, maintenance and operation with Bravo BT wireless control panel. The software allows the user to make full enrollment, settings and controlling the system by using only a mobile phone. Bravo SetApp has an installation wizard, which makes the initial installation process easier and much quicker for the installer. This makes BRAVO SetApp suitable not for professional installers only, but also and for regular users.

Bravo SetApp uses a Bluetooth interface in order to connect with Bravo BT panel.

Features and Advantages

• Quick installation wizard
• Enroll/Delete wireless devices at any time
• QR code device enrolling
• Full access to the system settings
• Communication module (GPRS, LAN) set up
• Bluetooth connection to the Bravo BT panel
• Local system control – Arm, Disarm, Zone bypass, etc.
• Automatic hands free disarm (when panel is in range)
• System maintenance – technical troubles overview
• Access to the system event log
• Multi-system control and set up
• Suitable for professional installers and DIY users
BRAVO WIRELESS ALARM PANEL

- Wireless alarm panel for home and residential security
- Full programming via panel’s buttons or directly with ProsTE software

BRAVO is a wireless intruder alarm control panel suitable for installation in residential houses and small offices. The system is comfort to control via key fobs, wireless compact keypad, BRAVO SetApp or Home ProTTEct (iOS/Android)* application. The installation is quick and very easy with a few simple settings at the beginning. The wireless configuration can be changed at any time with minimum efforts from the user. Direct programming with ProsTE software. As option GPRS, LAN, PSTN (Voice guide optional), MIO or MOUT communication modules can be added to the system configuration for programming via AJAX WEB application.

The BRAVO panels are certified according to the requirements of RED directive and EN 62368-1; certified to EN50131 GRADE2 Class II.

* Requires mounted BRAVO TTE GRRS/BRAVO LAN communication module to the control panel.

Functional Features

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation frequency</td>
<td>868MHz-869MHz</td>
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<tr>
<td>Type of indication</td>
<td>LED</td>
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<tr>
<td>Areas</td>
<td>1</td>
</tr>
<tr>
<td>Max. zones/ detectors</td>
<td>16 (including PIR, MC, FL, FD)</td>
</tr>
<tr>
<td>Max. remote controls</td>
<td>8 (including RC, RC-11/21/41, KBD)</td>
</tr>
<tr>
<td>Max. outdoor sirens</td>
<td>1; 115dB</td>
</tr>
<tr>
<td>Built-in sounder</td>
<td>85dB</td>
</tr>
<tr>
<td>Signal coding</td>
<td>✓</td>
</tr>
<tr>
<td>Memory LOG</td>
<td>300 events</td>
</tr>
<tr>
<td>Programming</td>
<td>BRAVO SetApp, ProsTE software</td>
</tr>
<tr>
<td>Communication, optional</td>
<td>GPRS, LAN, PSTN (VD), MIO, MOUT</td>
</tr>
<tr>
<td>Color</td>
<td>Pearl (Optional: white, black, blue, green, bordeaux, grey, brown and violet)</td>
</tr>
</tbody>
</table>

Technical Specifications

Mains Power Supply:
- BRAVO EXT/BRAVO BT EXT .......... Adapter AC-DC, 5VDC/1A
- BRAVO INTR/BRAVO BT INTR .......... 100-240VAC; 50-60Hz

Back-up battery .................. Li-Po type; 1x3.7 V/4100mAh
Max. back-up battery size ........ 80x65x10mm
Battery life ........................ ~ 3 years

Operating temperature range (indoor) .... from -10°C to +40°C, Class II
Relative humidity .................. 93%@+30°C
Enclosure box ...................... ABS plastic
Dimensions ........................... 220x160x38mm

BRAVO and BRAVO BT Panel Models

BRAVO EXT/BRAVO BT EXT - Wireless alarm panel with external power supply - AC-DC power adapter included in the purchased equipment.
BRAVO INTR/BRAVO BT INTR - Wireless alarm panel with internal power supply - built-in impulse power supply unit.
**BRAVO PIR**
- Digital PIR detector
- Coverage angle 90°
- Coverage area up to 15m
- 5x Detection zones
- White light immunity - 5200 Lux
- Temperature compensation
- PET 12kg
- Optional bracket for easy installation
- 1x3V/1500mAh, CR123A battery type
- ~ 3 years battery life
- Certified to EN50131, GRADE 2, Class II
- Certified according RED directive

**BRAVO MC**
- Magnetic contact detector
- Hard wired zone for connecting a rolling shutter or other wired detector
- 1x3V/1500mAh, CR123A battery type
- ~ 3 years battery life
- Certified to EN50131, GRADE 2, Class II
- Certified according RED directive

**BRAVO FD**
- Combined optical-smoke and heat detector
- Class A1/R according EN54-5
- Rate-of-rise heat part
- Optical chamber auto compensation
- 2x3V/1500mAh, CR123A battery type
- ~ 3 years battery life

**BRAVO FL**
- Flood detector
- 1x3V/1500mAh, CR123A battery type
- ~ 3 years battery life

**BRAVO PIR EXT GJD**
- Digital PIR detector
- Coverage angle 10°-70°
- Adjustment: 180° pan, 90° tilt
- 28 zones for each detection element
- White light immunity - 50 kLux
- Operating temperature -20°C to +55°C
- 3x3V, CR123A battery type
- ~ 1 year battery life
- Outdoor installation, IP65
BRAVO CURTAIN
- Curtain detector (combined PIR+MW)
- Two-way communication
- Detection range: up to 12m (adjustable)
- Coverage angle:
  - PIR part: 90° vertical, 7.5° horizontal
  - MW part: 80° vertical, 32° horizontal
- LED indication for Low battery and Test mode
- Operating temperature: -20°C to +60°C
- Battery pack 1x3V, type CR123A
- ~1 year battery life

BRAVO SR300 LIT
- Piezo outdoor siren
- Acoustic pressure: 110dB/1m
- Bidirectional tamper
- Internal metal cover
- LED flash
- Lithium battery type, 4x3V size “A”
- ~3 years battery life
- Operating temperature: -30°C to +65°C
- IP54 for electronics
- IP45 for the enclosure box
- Optional power supply with adapter 12VDC/1A
- Certified to EN50131, GRADE 2, Class IV
- Certified according RED directive

BRAVO SR300 ALK
- Piezo outdoor siren
- Acoustic pressure: 110dB/1m
- Bidirectional tamper
- Internal metal cover
- LED flash
- Alkaline battery type, 4x1.5V
- ~3 years battery life
- Operating temperature: -10°C to +40°C
- IP54 for electronics
- IP45 for the enclosure box
- Optional power supply with adapter 12VDC/1A
- Certified to EN50131, GRADE 2, Class II
- Certified according RED directive
**BRAVO KBD**
- LED indication keypad with compact design
- System status, faults and memory indication
- Backlight of the buttons activated via proximity sensor
- Bracket for easy wall mounting
- Programming menus for user codes, changing date and time, etc.
- Operating temperature -20°C to +55°C
- 2x3V, CR123A battery type
- ~ 1.5 years battery life
- Certified according RED directive

**BRAVO RC**
- 6-button key fob remote control
- Two-way communication
- LED indication for the system status
- Functions: Arm, Disarm, System information
- One button with programmable functionality
- 1x3V/600mAh, CR2450 battery type
- ~ 3 years battery life
- Certified to EN50131, GRADE 2, Class II
- Certified according RED directive

**BRAVO RC-41**
- 4-button key fob remote control
- One-way communication
- Operation with several BRAVO panels at the same time
- LED indication for enrollment mode
- Functions: Arm, Disarm
- Two buttons with programmable functionality
- 1x3V/190mAh, CR2032 battery type
- ~ 3 years battery life

**BRAVO RC-21**
- 2-button key fob remote control
- One-way communication
- Operation with several BRAVO panels at the same time
- LED indication for enrollment mode
- Functions: Arm, Disarm
- 1x3V/190mAh, CR2032 battery type
- ~ 3 years battery life

**BRAVO RC-11**
- 1-button key fob remote control
- One-way communication
- Operation with several BRAVO panels at the same time
- LED indication for enrollment mode
- Functions: Panic alarm
- 1x3V/190mAh, CR2032 battery type
- ~ 3 years battery life
**BRAVO LAN**
- LAN Communication module
- Built-in mounting in BRAVO panel
- Remote control and management via Home ProTTEct (iOS/Android) application
- Remote programming of BRAVO wireless panel via AJAX WEB user interface
- Push Notification messages for events to user via AJAX SP
- LAN settings – Manual or Automatic (DHCP)

**BRAVO PSTN/PSTN VD**
- PSTN Communication module
- Voice reporting (BRAVO PSTN VG)
- Built-in mounting in BRAVO panel
- 2 GB micro SD card (BRAVO PSTN VG)
- 4 Phone numbers for sending messages for events to monitoring station (via CID or SIA protocol) or to User (via User protocol)
- Certified to EN50131, GRADE2, Class II, SP1 [Voice protocol], SP2 [Digital protocol]

**BRAVO MIO**
- Communication module with inputs and outputs
- 4 inputs for wired hardware zone connection
- Two operation modes for the outputs according the application:
  - "MOUT" - For connection of external communication devices and connection of a wired siren
  - "PGM" - 6 outputs, suitable for management via Home ProTTEct application, OC type, 100mA
- Built-in mounting in BRAVO panel

**BRAVO MOUT**
- Communication module with outputs
- Two operation modes according the application:
  - "MOUT" - For connection of external communication devices and connection of a wired siren
  - "PGM" - 6 outputs, suitable for management via Home ProTTEct application, OC type, 100mA
- Built-in mounting in BRAVO panel
TTE LAN
- Indication for the network status and the status of the connection with the control panel
- Internet remote programming and control through AJAX SP PRO/Home ProTTEct (iOS/Android) application
- Micro USB port for configuration with ProsTE software
- Serial communication with ECLIPSE series control panels and SIMPO addressable fire alarm panel
- 6 programmable inputs/outputs, OC type (up to 100mA each)
- Main and Backup IP for connection with AJAX SP PRO
- Supports operation with SIA-DC09 IP protocol messages
- Automatic (DHCP) or manual settings for network connection
- Jumper for restoring of the factory settings
- Suitable for home automation
- Control panel communication supervision
- Network status indicator

TTE Combo
- Compatible with control panels capable of sending Contact ID (CID)
- Control panel communication supervision
- AES 128 encryption
- Communication channels – PSTN, LAN and/or GPRS
- Main and Back-up reporting channels
- Connecting to AJAX SP PRO through IP or DNS address
- Supports operation with SIA-DC09 IP protocol messages
- LAN settings – Manual or Automatic (DHCP)
- 1 input (TAMPER), 2 outputs

TTE GPRS Standard
- Serial communication with Eclipse control panels
- Third party alarm panels connected to the inputs
- 6 programmable inputs/outputs, OC type (up to 100mA each)
- 6 telephone numbers
- SMS for system events and input activation
- CLIP and SMS Control of PGM outputs
- Voice Reporting and Voice Guiding (arming, disarming, output control)
- Connection with AJAX SP servers via IP or DNS address
- Main and back-up servers
- SIA-DC09 over IP reporting to AJAX SP
- AES 128 encryption
- Remote access via AJAX WEB and Home ProTTEct (iOS/Android) application
- Operation with SIM cards with roaming plan
- Automatic switching between mobile operators [cellular-networks] in different countries
- Micro USB port for programming
- The module is certified according the requirements of RED directive

TTE GPRS Simple
- Serial communication with Eclipse control panels
- 6 telephone numbers
- SMS for system events
- Voice Reporting and Voice Guiding (arming, disarming)
- Connection with up to two AJAX SP servers via IP or DNS address
- SIA-DC09 over IP reporting to AJAX SP
- AES 128 encryption
- Remote access via AJAX WEB and Home ProTTEct (iOS/Android) application
- Operation with SIM cards with roaming plan
- Automatic switching between mobile operators [cellular-networks] in different countries
- USB port for programming
- The module is certified according the requirements of RED directive
SOFTWARE
AJAX SP
SOFTWARE SECURITY SOLUTION

AJAX SP (TTE Cloud service) is a comprehensive network solution for maximum reliability of every security system. Appropriate for use by monitoring centres and end users alike.

Features and Advantages
AJAX SP - CD Software Pack; Based on OS Windows Server; Administrator and WEB User application.
• Online web based application
• Receives signals from GPRS/ LAN Teletek Electronics communication modules installed at monitored sites
• Online monitoring and status information of alarm systems connected to the AJAX SP
• Integrated video verification with third-party video systems
• Transfers messages via LAN or RS232 to monitoring software with SURGARD MLR2 protocol
• Full remote programming of Teletek Electronics control panels and modules
• Remote Arm/Disarm/Bypass/Output control/LOG file view
• Push notification messages for events to user
• 1 main IP address and 1 backup IP address
• Up to 10 000 modules
• High speed data transmission, protected via 128bit AES encryption algorithm
• Based on OS Windows Server 2012

Recommended PC configuration for installation of AJAX SP:
• Pentium CPU 2.0
• 500 GB disk place
• 2GB RAM
• 128 MB Video Card
• CD-ROM
• Ethernet interface
• COM port

AJAX SP Station
• AJAX SP in hardware version
• All features and characteristics of AJAX SP apply
• 1 main IP address and 1 back-up IP address
• No additional hardware needed
• No installation needed
• Two Ethernet cards
• 2 COM ports
Home ProTTEct is mobile application for management and monitoring of all the intruder alarm systems manufactured by Teletek Electronics: ECLIPSE and BRAVO series. The application is native, developed for both Android and iOS, in accordance to the latest requirements of both platforms. In order to connect your system to the Home ProTTEct application, it must be registered to the Ajax SP Server. The application is free for both Android and iOS users.

Features and Advantages
- Remote System control – user can Arm and Disarm his system/s remotely
- Multi-system control – the application can manage multiple systems
- System status indication – the user can see the last event and the alarm status in the system list of the application
- The application supports two methods for adding new system:
  - Manual – by entering your user credentials manually
  - By scanning a QR code – the code is generated by the Ajax SP Server (Cloud)
- System sharing – a user can share his system by generating a QR code through the Home ProTTEct application, so another user can add this system as well.
- Partial arming - the user can also set the system in two different partial arm states – Stay or Sleep Arm
- Detector management – the user can manage(enable/disable) the detectors/zones of the system when needed
- Push notifications – Home ProTTEct sends notification in case of any event in the system
- Special alarm tone – the application supports a special sound signal for the Alarm events
- Alarm snooze algorithm – the Alarm notification sound will be automatically repeated, in case the notification is not confirmed by the user
ProsTE PROGRAMMING SOFTWARE

ProsTE is a software package for programming of Teletek Electronics intruder and fire alarm panels and modules. The software allows fast and user-friendly programming to the benefit of installers.

ProsTE Advantages
- Intuitive and user-friendly graphic interface
- Easy programming of all system parameters
- Saves time and effort
- Allows creation of default configurations in TDF (Teletek Data Files) ready for use on site
- Decreases possibility of mistakes during programming
- No need to remember addresses or use programming manuals
- Download and update available at http://www.teletek-electronics.com
- Multilingual support

Supported products
- Eclipse 8/8+/16/32/99
- BRAVO Wireless panel
- IBRAVO BT Wireless panel
- IRIS
- iRIS8
- SIMPO
- IRIS/SIMPO Repeater
- TTE GPRS Standard
- TTE GPRS Simple
- TTE LAN
- TTE Combo

ProsTE CABLE KIT
- Special cable kit for programming of Teletek Electronics’ panels and modules:
  - Cable converter USB to RS232
  - Interface cable to RS232
Guard View is designed to serve companies acting in the field of monitoring of objects by centralized monitoring systems. Compatible with LRR 8000 and AJAX SP.

Features
- Compatible with most of the popular alarm receivers and alarm protocols: LARS, Electronics Line, SIA, Ademco Contact ID
- MySQL database - SQL server for maintenance of the relational database with local and net clients
- Compatible with OS Windows - 32/64 bit’s version with installed .NET Framework 4
- Alarm monitoring window for ensuring operator’s activity
- Manager window for organizing the work regarding entering and updating the information about the protected objects as well as creating reports from the incoming signals in the archive
- Driver programs for receiving signals from COM and LAN ports
- Test program simulating signals from the protected objects in the database

Guard View Advantages
- Detailed information for all incoming messages
- Log in with different accounts – Operators, Managers, Administrator
- Complete file for every site with address, contact person, location details, picture of site, instructions for monitoring station staff
- Additional windows for filtered messages
- File for site in alarm
- Flexible database administration
- Up to 10 000 sites management
- Detailed reports for received messages
- Sending SMS messages to Users
Observer is a software application for monitoring of sites equipped with burglary or fire alarm panels produced by Teletek Electronics JSC.

Functional Specifications
- Supported panels for operation: ECLIPSE Series, IRIS Series, SIMPO, BRAVO
- Supports up to 64 panels ECLIPSE, BRAVO, IRIS and SIMPO - up to 1000 devices per IRIS panels, up to 500 devices per SIMPO panel, up to 30 devices per ECLIPSE panel (depends on the panel’s model), up to 16 devices per BRAVO panel
- Monitors the condition and state of SensoIRIS fire detectors (Alarm, Normal, Fault) and Area(s) in ECLIPSE/BRAVO panels
- Shows full information about the fire detector in alarm state - zone, name, etc
- Monitors faults in the panel - Low Batt, AC Loss, etc
- Allows control over the Fire alarm panel - silence buzzer, silence sounders, evacuation, reset
- Allows control over the ECLIPSE/BRAVO alarm panel - Arming /Full, Stay, Sleep/, Disarming, Zone Bypass, PGM outputs switch ON/OFF
- Allows import of architectural plans and pictures on which the detectors are placed (JPG, BMP, PNG, TIF, GIF)
- Keeps printable event log
- Signals visually and audibly in case of alarm or fault
- ModBus protocol included

Observer Advantages
- Integrated video verification with third-party video systems
- Direct ProsTE files import (Device name, zone name, panel name and panel IP address)
- Devices Drag and drop placement
- Panels control
- Minimum programming
- Simple and User Friendly Interface
- Windows 7/8.1/10 support
- Multi language support
- Protection by means of password and hardware key [Dongle]
- Event audio signalization
TITAN PIR DETECTORS

TITAN Series is a range of high quality PIR detectors suitable for medium to high risk commercial and residential applications where security cannot be compromised.

The TITAN PIR detector range has minimum 12kg PET Immunity option for each type.

TITAN series detectors are equipped with very precise cylindrical lens which guarantees stable and reliable detection.

The detectors come with 5-year warranty.

A bracket is available as option.

<table>
<thead>
<tr>
<th></th>
<th>Titan AG</th>
<th>Titan DL</th>
<th>Titan QD 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN Grade certified</td>
<td>2, Class II</td>
<td>2, Class II</td>
<td>×</td>
</tr>
<tr>
<td>Algorithm</td>
<td>Analogue</td>
<td>Digital</td>
<td>Digital</td>
</tr>
<tr>
<td>Filtering</td>
<td>Analogue</td>
<td>Digital + Analogue</td>
<td>Digital + Analogue</td>
</tr>
<tr>
<td>Range, m</td>
<td>1.5-15</td>
<td>1.5-15</td>
<td>1.5-15</td>
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<tr>
<td>Temperature compensation</td>
<td>✓</td>
<td>Digital bidirectional</td>
<td>Digital bidirectional</td>
</tr>
<tr>
<td>RF Immunity</td>
<td>10 V/m; 80 - 2000 MHz</td>
<td>10 V/m; 80 - 2000 MHz</td>
<td>10 V/m; 80 - 2000 MHz</td>
</tr>
<tr>
<td>PET Immunity</td>
<td>Up to 12kg</td>
<td>12/20kg (selectable)</td>
<td>25/40kg (selectable)</td>
</tr>
<tr>
<td>Detection speed</td>
<td>0.2-3.5 m/s</td>
<td>0.2-3.5 m/s</td>
<td>0.2-3.5 m/s</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20°C ÷ +50 °C</td>
<td>-20°C ÷ +50 °C</td>
<td>-20°C ÷ +50 °C</td>
</tr>
<tr>
<td>White light immunity, lux</td>
<td>6500</td>
<td>4000</td>
<td>6500</td>
</tr>
<tr>
<td>Sensitivity adjustment</td>
<td>1 pulse and auto</td>
<td>1 pulse and auto</td>
<td>1 pulse and 2 pulses (PET)</td>
</tr>
<tr>
<td>Viewing angle</td>
<td>90°</td>
<td>90°</td>
<td>90°</td>
</tr>
<tr>
<td>Indication On/Off</td>
<td>LED</td>
<td>LED</td>
<td>LED</td>
</tr>
<tr>
<td>OptoMOS output</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>9 - 18V DC</td>
<td>9 - 18V DC</td>
<td>9 - 18V DC</td>
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<tr>
<td>Consumption</td>
<td>&lt;12mA</td>
<td>&lt;14mA</td>
<td>&lt;14mA</td>
</tr>
</tbody>
</table>
Titan AG
- PIR detector with cylindrical lens
- Coverage angle 90°
- Coverage area up to 15m
- 54 Detection zones
- Temperature compensation
- High white light immunity up to 6500Lux
- PET immunity: small animals up to 12kg
- Reverse polarity protection
- TITAN AG is EN50131 GRADE2 Class II certified

Titan DL
- PIR detector with cylindrical lens
- Digital processing algorithm
- Suitable for application in high class buildings - bank offices, storehouses, etc.
- Digital bidirectional temperature compensation
- Coverage angle 90°
- Coverage area up to 15m
- 54 Detection zones
- White light immunity up to 4000Lux
- PET immunity: small animals 12/20kg [selectable]
- Reverse polarity protection
- Option - 7 sensitivity levels [selectable]
- TITAN DL is EN50131 GRADE2 Class II certified

Titan QD 40
- PIR detector with cylindrical lens
- PET immunity up to 25/40kg [selectable]
- Coverage angle 90°
- Coverage area up to 15m
- 54 Detection zones
- Digital bidirectional temperature compensation
- Excellent white light immunity up to 6500Lux
- Reverse polarity protection

Pet immunity
- TITAN AG (PET - 12kg)
- TITAN DL (PET - 12/20kg)
- TITAN QD 40 (PET - 25/40kg)
Dual technology detectors assure extremely high level of protection with supreme quality.

For excellent performance in detection we combine Microwave and Glass Break with PIR technology providing flexibility for professionals.

Anti Masking and Anti Spray options are provided for TITAN MW AM.

The detectors come with 5-year warranty.

A bracket is available as option.

<table>
<thead>
<tr>
<th>Function</th>
<th>Titan MW</th>
<th>Titan MW AM</th>
<th>Titan GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN Grade certified</td>
<td>2, Class II</td>
<td>3, Class II</td>
<td>×</td>
</tr>
<tr>
<td>Algorithm</td>
<td>Digital</td>
<td>Digital</td>
<td>Analogue</td>
</tr>
<tr>
<td>Anti Masking</td>
<td>×</td>
<td>✓</td>
<td>×</td>
</tr>
<tr>
<td>Range, m</td>
<td>PIR: 1.5-15 MW: 5-15</td>
<td>PIR: 1.5-15 MW: 5-15</td>
<td>PIR:1.5-15 GB: up to 15</td>
</tr>
<tr>
<td>PIR Sensitivity</td>
<td>Maximum or Auto</td>
<td>Maximum or Auto</td>
<td>1 Pulse or Auto</td>
</tr>
<tr>
<td>PIR Detection Speed</td>
<td>0.2 m/s - 3.5m/s</td>
<td>0.2 m/s - 3.5m/s</td>
<td>0.3 m/s - 3.0m/s</td>
</tr>
<tr>
<td>MW Sensitivity</td>
<td>With Trimmer, Frame Recognition</td>
<td>With Trimmer, Frame Recognition</td>
<td>×</td>
</tr>
<tr>
<td>MW Frequency</td>
<td>10.525 GHz (X-Band)</td>
<td>10.525 GHz (X-Band)</td>
<td>×</td>
</tr>
<tr>
<td>GB Frequency</td>
<td>×</td>
<td>×</td>
<td>5 - 10 kHz</td>
</tr>
<tr>
<td>Functions</td>
<td>×</td>
<td>×</td>
<td>Frequency and Amplification</td>
</tr>
<tr>
<td>Outputs</td>
<td>OptoMOS Relay</td>
<td>OptoMOS Relay</td>
<td>OptoMOS Relays - Separately</td>
</tr>
<tr>
<td>White Light Immunity, lux</td>
<td>4000</td>
<td>4000</td>
<td>6500</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20°C + +50°C</td>
<td>-20°C + +50°C</td>
<td>-20°C + +50°C</td>
</tr>
<tr>
<td>LED for Status Indication</td>
<td>3 LEDs–PIR, MW, ALARM</td>
<td>3 LEDs–PIR, MW, ALARM</td>
<td>✓</td>
</tr>
<tr>
<td>Consumption Standby/Alarm, max</td>
<td>23/46mA@12V DC</td>
<td>23/46mA@12V DC</td>
<td>17/32mA@12V DC</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>9 -18V DC</td>
<td>9 -18V DC</td>
<td>9 -18V DC</td>
</tr>
</tbody>
</table>
Titan MW
- Dual Technology (PIR+MW) detector
- Digital Analysis
- Cylindrical lens
- Function "Triple Knock" - maximum protection against false alarms
- White light immunity up to 4000Lux
- PET Immunity up to 12kg (for the PIR part only)
- Sensitive adjustment - MW and PIR
- Reverse polarity protection
- TITAN MW is EN50131 GRADE2 Class II certified

Titan MW AM
- Dual Technology (PIR+MW) detector
- Digital Analysis
- Cylindrical lens
- Function "Triple Knock" - maximum protection against false alarms
- AntiMasking and AntiSpray functions
- Self-test function - a continuous assessment for operation of MW or PIR sensors. If any of the sensors is defective, the FAULT relay is activated.
- White light immunity up to 4000Lux
- Sensitive adjustment - MW, AM and PIR
- Reverse polarity protection
- TITAN MW AM is EN50131 GRADE3 Class II certified

Titan GB
- Dual Technology (PIR + GBD glass break) detector
- Pulse count adjustment PIR and GBD
- Frequency adjustment - GBD
- Excellent white light immunity up to 6500Lux
- PET Immunity up to 12kg (for the PIR part only)
- Auto temperature compensation
- Reverse polarity protection

Bracket
- Bracket for TITAN Series detectors
- Suitable for wall and ceiling mounting

Lens Pattern - top view

Lens Pattern - side view

Pet immunity

TITAN MW (PET - 12kg)
TITAN GB (PET - 12kg)
### SensoMAG F10 INTR
- Fixed temperature fire alarm detector with relay base
- Digital process algorithm
- Detects temperature over 60°C, class A2/S
- LED indication with 360° visibility
- Low profile design
- Low current consumption
- Compatible with deep base accessory DeepBase W

### SensoMAG R20 INTR
- Rate-of-rise temperature fire alarm detector with relay base
- Digital process algorithm
- Detects temperatures above 58°C or rapid change in temperature for a period of time, class A1/R
- LED indication with 360° visibility
- Low profile design
- Low current consumption
- Compatible with deep base accessory DeepBase W

### SensoMAG S30 INTR
- Optical-smoke fire alarm detector with relay base
- Digital process algorithm
- Automatic drift compensation
- LED indication with 360° visibility
- Gasket ring for additional protection to the smoke chamber against dust and dirt
- Low profile design
- Low current consumption
- Compatible with deep base accessory DeepBase W

### SensoMAG M40 INTR
- Combined optical-smoke and rate-of-rise fire alarm detector with relay base
- Class A1/R
- Digital process algorithm
- Automatic drift compensation
- LED indication with 360° visibility
- Gasket ring for additional protection to the smoke chamber against dust and dirt
- Low profile design
- Low current consumption
- Compatible with deep base accessory DeepBase W

### Deep Base W
- Deep base accessory
- Color - white [RAL 9016]
- Application for mounting on rough surfaces, pipelines, floating ceilings, etc
- Compatible with SensoMAG INTR detectors
FIRE ALARM DETECTORS

SensoMAG F10 RL
- Fixed heat detector with built-in relay 80mA
- Digital processing algorithm
- Detects temperatures over 60°C, class A2/S
- LED indication with 360° visibility
- Low profile design
- Low current consumption
- Compatible with standard bases B24 and B24-HP
- Compatible with deep base accessory DeepBase W

SensoMAG R20 RL
- Rate-of-rise heat detector with built-in relay 80mA
- Digital processing algorithm
- Detects temperatures above 58°C or rapid change in temperature for a period of time, class A1/R
- LED indication with 360° visibility
- Low profile design
- Low current consumption
- Compatible with standard bases B24 and B24-HP
- Compatible with deep base accessory DeepBase W

SensoMAG S30 RL
- Optical-smoke detector with built-in relay 80mA
- Digital processing algorithm
- Automatic drift compensation
- LED indication with 360° visibility
- Gasket ring for additional protection to the smoke chamber against dust and dirt
- Low profile design
- Low current consumption
- Compatible with standard bases B24 and B24-HP
- Compatible with deep base accessory DeepBase W

SensoMAG M40 RL
- Combined detector (Optical-smoke and Rate-of-rise) with built-in relay 80mA
- Class A1/R
- Digital processing algorithm
- Automatic drift compensation
- LED indication with 360° visibility
- Gasket ring for additional protection to the smoke chamber against dust and dirt
- Low profile design
- Low current consumption
- Compatible with standard bases B24 and B24-HP
- Compatible with deep base accessory DeepBase W

SensoMAG B24
- Standard 24V base for SensoMAG detectors
- Low profile design
- Compatible with fire panels with alarm state current up to 15mA
- Dimensions 102x18mm

SensoMAG B24-HP
- Standard 24V base for SensoMAG detectors
- High profile design
- Suitable for mounting on rough surfaces
- Compatible with fire panels with alarm state current up to 15mA
- Dimensions 103x25mm
**SIRENS**

**INTRUDER ALARM SYSTEMS**

**SR 50**
- Indoor siren
- Sound output - 102dB/1m
- Piezo speaker
- Blue flash
- Plastic enclosure

**SR 105**
- Indoor siren
- Sound output - 105dB/1m
- Piezo speaker
- Blue flash
- Plastic enclosure

**SR 110**
- Indoor siren
- Sound output - 105dB/1m
- Piezo speaker
- Plastic enclosure
- Tamper

**SR 200**
- Outdoor siren
- Selectable sound output - 95dB/1m; 117dB/1m
- Electromagnetic speaker
- Plastic housing with inner metal cover
- IP54 and IK08 protection
- Built-in tamper and spirit level
- LED flash

*Metal housing. Easy cover assembling with only one screw.*

*IP54 sealed electronics, including terminal block.*

*Level bubble for right mounting.*

*Double tamper (screw and wall).*
SIRENS
INTRUDER ALARM SYSTEMS

SR 300B
- Outdoor siren
- Selectable sound output - 85dB/1m; 105dB/1m
- Piezo speaker
- Plastic housing with inner metal cover
- IK08 and IP54 protection
- Built-in tamper and spirit level
- Built-in NiMH battery, 9V/180mAh
- Flat cover for company sticker or logo
- Orange flash
- SR 300B is EN50131 GRADE2 Class IV certified

SR 3000
- Outdoor siren
- Selectable sound output - 85dB/1m; 105dB/1m
- Piezo speaker
- Plastic housing with inner metal cover
- IK08 and IP54 protection
- Built-in tamper and spirit level
- Connectors for accumulator 1x12V/2.1Ah
- Flat cover for company sticker or logo
- Blue flash

SR 400
- Outdoor siren
- Selectable sound output - 85dB/1m; 105dB/1m
- Piezo speaker
- IK08 and IP45 protection
- Built-in tamper and spirit level
- Built-in NiMH battery, 9V/1100mAh
- Flat cover for company sticker or logo
- Blue flash
- SR 400 is EN50131 GRADE3 Class IV certified

Double tamper (screw and wall).
Level bubble for right mounting.
Other Detectors, Accessories

GBD 10
- Glass break detector
- Analogue analysis
- Adjustable sensitivity
- Adjustable frequency range
- Sensitive to sounds between 2 and 10kHz

GBD 20
- Glass break detector
- Digital frequency analysis
- Detection of 4 different types of glass
- Pattern recognition technology
- Automatic sensitivity adjustment
- False alarm immunity
- Operating range from 1 to 7 meters
- Coverage area - 180°

GB Tester
- Assists the selection of appropriate place for glass break detector installation
- Two starting modes - automatic and manual
- Four types of glass break tests

AUMS-12S
- Magnetic contacts
- For door or window use
- Surface mounting with screws or twin adhesive tape
- N/O for closed loop systems
- Contact distance up to 20 - 25mm
- Lead wires length - 400mm

MDU Kit
- Universal remote control module
- Operating frequency 433MHz
- Transmitting distance 50-100m
- Two independent channels
- Selectable latch or pulse operation mode for each channel
- 2 built-in power relays
- Two remote control units in the set
- Up to 100 remote key fobs

MDU-V
- Remote control module with transmitter
- Rolling code
- One channel
- Up to 15 transmitters
- Option to prohibit lost transmitter
- LED indication for relay output
- 4 programmable operation modes

PS12XX
- Power supply units
- PS1210 - 12VDC, 1A
- PS1230 - 12VDC, 3A
- Plastic box
- Transformer

PB-U
- Universal plastic box
- Suitable for ECLIPSE ZONE 8 PS, ECLIPSE PGM 8 PS
- Built-in bidirectional tamper switch
- ABS plastic

SB-U
- Suitable for TTE GPRS Standard, TTE GPRS Simple, TTE LAN, TTE Combo, ARGUS, ECLIPSE ZONE8, ECLIPSE PGM8, ECLIPSE WL
- Built-in bidirectional tamper switch
- ABS plastic
- Optional variant with transparent cover