

INSTALLATION MANUAL

ECLIPSE 8 ECLIPSE 8+ ECLIPSE 16 ECLIPSE 32 ECLIPSE 99 (S.W. 3.xx)

ALARM CONTROL PANELS

Attention:

CE

This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read.

The information in this manual is a subject to change without notice!

Table of Contents:

QUICK STEPS OF INSTALLATION	4
1. GENERAL INFORMATION	6
2. INSTALLATION 2.1. Control Panels Mounting 2.1.1 ECLIPSE 8/8+/16 2.1.2 ECLIPSE 32/00	7 7 7
2.1.2 ECLIPSE 32/99 2.2. Control Panels PCB Layouts 2.2.1 ECLIPSE 8 2.2.2 ECLIPSE 8+	9 9 9
2.2.3 ECLIPSE 16 2.2.4 ECLIPSE 32 2.2.5 ECLIPSE 99	11 12 13
 2.3. Zone Connection	14 14 16 16
2.3.4 Connecting Fire Lines 2.4.1 Connection to the System Bus 2.4.2 Supported Keyboards 2.4.3 Supported Wired Expander modules	17 18 18 19 22
 2.4.4 Supported Wireless Expander Module	26 27 29 31 32 32
2.9. Connecting Communication Modules 3. INITIAL POWER-UP and RESET ALGORITHMS 3.1. Initial Power-up algorithm 3.2. Reset Algorithm	33 33 33 33
4. TROUBLE EVENTS	34
 5. ENROLLING/DELETING OF DEVICES	35 35 36 36 36 37
6. OPERATION WITH A SERVICE KEYBOARD	37
7. UPDATING THE FIRMWARE	38
14. Write down the saved earlier system configuration (*.TDF file).	38
8. APPENDIX – Quick Guide of the Engineer Programming Menus	39

GUARANTEE

The guarantee terms are determined by the serial number (barcode) of the electronic device!

During the guarantee period the manufacturer shall, at its sole discretion, replace or repair any defective product when it is returned to the factory. All parts replaced and/or repaired shall be covered for the remainder of the original guarantee, or 6 months, whichever period is longer. The original purchaser shall immediately send manufacturer a written notice of the defective parts or workmanship.

INTERNATIONAL GUARANTEE

Foreign customers shall possess the same guarantee rights as those any customer in Bulgaria, except that manufacturer shall not be liable for any related customs duties, taxes or VAT, which may be payable.

GUARANTEE PROCEDURE

The guarantee will be granted when the appliance in question is returned. The guarantee period and the period for repair are determined in advance. The manufacturer shall not accept any product, of which no prior notice has been received via the RAN form at: https://teletek-electronics.com/en/ran-form

The setup and programming included in the technical documentation shall not be regarded as defects. Teletek Electronics bears no responsibility for the loss of programming information in the device being serviced.

CONDITIONS FOR WAIVING THE GUARANTEE

This guarantee shall apply to defects in products resulting only from improper materials or workmanship, related to its normal use. It shall not cover:

- Devices with destroyed serial number (barcode);
- Damages resulting from improper transportation and handling;
- Damages caused by natural calamities, such as fire, floods, storms, earthquakes or lightning;
- Damages caused by incorrect voltage, accidental breakage or water; beyond the control of the manufacturer;
- Damages caused by unauthorized system incorporation, changes, modifications or surrounding objects;
- Damages caused by peripheral appliances unless such peripheral appliances have been supplied by the manufacturer;
- Defects caused by inappropriate surrounding of installed products;
- Damages caused by failure to use the product for its normal purpose;
- Damages caused by improper maintenance;
- Damages resulting from any other cause, bad maintenance or product misuse.

In the case of a reasonable number of unsuccessful attempts to repair the product, covered by this guarantee, the manufacturer's liability shall be limited to the replacement of the product as sole compensation for breach of the guarantee. Under no circumstances shall the manufacturer be liable for any special, accidental or consequential damages, on the grounds of breach of guarantee, breach of agreement, negligence, or any other legal notion.

WAIVER

This Guarantee shall contain the entire guarantee and shall be prevailing over any and all other guarantees, explicit or implicit (including any implicit guarantees on behalf of the dealer, or adaptability to specific purposes), and over any other responsibilities or liabilities on behalf of the manufacturer. The manufacturer does neither agree, nor empower, any person, acting on his own behalf, to modify, service or alter this Guarantee, nor to replace it with another guarantee, or another liability with regard to this product.

UNWARRANTED SERVICES

The manufacturer shall repair or replace unwarranted products, which have been returned to its factory, at its sole discretion under the conditions below. The manufacturer shall accept no products for which no prior notice has been received via the RAN form at: <u>https://teletek-electronics.com/en/ran-form</u>.

The products, which the manufacturer deems repairable, will be repaired and returned. The manufacturer has prepared a price list and those products, which can be repaired, shall be paid for by the Customer. The devices with unwarranted services carry 6 months guarantee for the replaced parts. The closest equivalent product, available at the time, shall replace the products, the manufacturer deems un-repairable. The current market price shall be charged for every replaced product.

STANDARDS AND CONFORMITY

The Eclipse Series control panels are designed according and with conformity to the European Union (EU) Low Voltage Directive (LVD) 2006/95/EC and Electro-Magnetic Compatibility (EMC) Directive 2004/108/EC.

The CE mark is placed for indication that the Eclipse control panels comply with the requirement of EU for safety, health, environmental and customer protection.

Alarm Control Panel: Eclipse 8, Eclipse 16, Eclipse 32 Alarm Control Panel: Eclipse 99 EN50131-1:2006 EN50131-1:2006 EN50131-3:2009 EN50131-6:2008 EN50131-6:2017 EN50131-3:2009 EN50131-10:2015 Cert. No: TT-449/2019 EN50136-1:2012 Cert. No: TT-76/2018 EN50136-2:2013 EN50136-1:2012 EN50136-2:2013 EN50131-10:2014 Grade 3 Class I SP2 Grade 2 Class I SP2

CERTIFICATIONS AND APPROVALS

QUICK STEPS OF INSTALLATION

Step 1 Working plan-diagram of the system

Draw out a working plan diagram of the site and locate the elements of the alarm control system on it. Choose the best place for installation of the detectors, control keyboards and other system devices.

Step 2 Installation of the control panel

Choose a place for installation of the control panel close to mains power 230V and telephone line terminals. Choose the most appropriate openings for running the power supply cable, zone wires, PGM outputs and the system BUS. Mount the bottom of the box on the wall as use the supplied on the back side of the package template for drilling. Mount a tamper-switch and level it according the installation surface to provide the box self-protection. Connect the wires of the tamper-switch to that zone considered to be TAMPER type.

ATTENTION: The initial power-up of the panel is only after completing all the wiring of the system!

Step 3 Connecting devices to the system BUS

Connect all keyboards and expander modules to the control panel using 4-wire alarm cable (system BUS). It is obligatory to follow the correspondence of the colors between control panel and keyboard/additional devices terminals. Use the detailed connection diagrams provided in item 2.4 of this manual.

Step 4 Connecting of zones

Connect the detectors in the zones as use one of the following connection diagrams according the respective application. According your system you can choose among different connection styles diagrams:

ECLIPSE 8 - 5 connection styles diagrams for single zone connection

ECLIPSE 8+ - 9 connection diagram styles for single and doubling zone connection

ECLIPSE 16 - 5 connection styles diagrams for single zone connection

ECLIPSE 32 - 9 connection diagram styles for single and doubling zone connection

ECLIPSE 99 - 9 connection diagram styles for single and doubling zone connection

Use the detailed connection diagrams provided in item 2.3 of this manual.

Step 5 Connecting of sirens, PGM outputs and other devices

Connect the sirens, controlling devices (such as proximity card readers or remote controls), the digital communicator, communicator modules, etc. Use the detailed connection diagrams provided in items 2.5-8 of this manual.

Step 6 Initial power-up of the control panel

1. Set a jumper to RESET terminal of the main control panel Eclipse (see the general connection diagram corresponding to the model).

2. Power the control panel from the mains 230V.

3. Connect the battery wires to accumulator battery 12V/7Ah for back-up power supply as strictly observe the polarity: red wire to "+" battery terminal, black wire to "-" battery terminal.

4. The backlights of all connected to the system BUS control keyboards light up and a procedure for initial initialization starts running. Wait for 30-60 sec until ending of initialization procedure. Now the system is ready for registration of devices. *Note: The time for initialization depends on the size of system configuration.*

5. Press the ENT (\checkmark) button of all connected to the system BUS keyboards one-by-one – this is the way to register the keyboards to the control panel. Press the little button (located between the two terminal rows) of all expanding modules connected to the system BUS to register them to the control panel. A confirmation sound signal is heard – see also the other ways for registration of devices to the control panel described in item 5.

ATTENTION: DO NOT press the PRG button of any of the keyboards during the registration procedure! Otherwise, you will register the keyboard as "Service keyboard"!

6. Remove the jumper from RESET terminal.

7. Wait until the system BUS LED stops blinking in green.

8. Set the actual time and date to clear the Trouble message "9. Invalid clock".

Step 7 Programming the system

1. The default set style for programming is the one using text tree-structure for the engineer menus (LCD keyboard)*. To change the programming style at the beginning you have to enter first the engineer menu with valid code (7777 by default) and choose in sequence:

7777 - 2.SETTINGS - 14. MENU STYLE: - TEXT, ADDRESS or OPERATION

Confirm with ENTER (\checkmark) the preferred programming style.

*Note: The LED Keyboards use a default programming style with ADDRESSES. It is strongly recommended to use LCD keyboard for programming to avoid mistakes and troubles during setting the parameters and values. You can also use ProsTE software for quick programming and settings.

2. Program the general zone parameters:

- Connecting type (address 2000, operation 200). Enter the number of the chosen connection diagram - see Step 4.

- Pulse count (address 2003, operation 203).

- Zone types and their distribution in the used areas, etc. You can use the cloning function to set the parameters of one zone to other zones (address 2005, operation 205).

3. Program the parameters of the PGM outputs, time slots, areas and users in the system – for details see the Programming tables in the ECLIPSE 8/8+/16/32/99 Series - Engineer Programming Manual. *Note:* If the PGM5 (ECLIPSE 32 or ECLIPSE 99) output is not used for connecting siren you must program it as PGM with general application. The default setting of PGM5 is operation as sounder. To clear the trouble message "8. Siren Fault" deselect for PGM5 (5.OUTPUTS-2.PGMs-05.PGM-2.OPTIONS) option SIREN (no " ✓ mark") and save it; or terminate the output with 1K resistor. For more details – see item 2.6.

Step 8 Testing system

Test the system for correct functioning and operating efficiency according the programmed parameters. Test arming and disarming with the keyboards, readers and remote controls. Test the activation of the siren and the digital communicator after an alarm event.

Step 9 Archiving the system parameters and configuration

If possible, make an archive for the system elements, programming parameters and configuration. Save a system configuration (as .TDF file) with ProsTE software to make a data base of the installed system in the site.

Step 10 Training the users to operate and manage the system

As a last step make a short training with the users of the system to familiarize with the basic functions and operations with the system:

- 1. Arming and disarming the system using keyboard or proximity card reader.
- 2. Zone bypassing in the site why and how to do.
- 3. Changing own user code.
- 4. Review of system events and troubles.
- 5. Basic functions of the buttons and indication on the display.
- 6. Make also more detailed training of the system managers to operate and program the system with the extended Manager Programming menus.

1. GENERAL INFORMATION

The ECLIPSE series Alarm control panels are designed and tested in compliance with electromagnetic compatibility (EMC) standards. The following recommendations need to be observed for the proper performance of the alarm station:

- Ensure the alarm system is properly earthed (grounded). \triangleright
- Insulate the high and low voltage cables and use different input openings on the box. \triangleright
- \triangleright Avoid any loops of connecting wires within the very box and in their passage over or under the printed circuit boarding.
- Additional relays MUST NOT be placed in the Eclipse Alarm control panel box as these may generate electromagnetic interference when switched.
 - Use only relays with good insulation between contacts and the winding.
 - Relays, connected to outputs with an open commutator, must be designed to accommodate a 12 V DC driving voltage and an impedance at the winding greater than 400Ω .
 - The cable connecting the control panel and the keyboard is quadruple.
- \triangleright It is strongly recommended not to: use this cable to make other connections - connect to a telephone line, Flashlamps control signals, sirens or relavs,
- Avoid channels or cable forms that contain high voltage cables when placing the connecting shielded cables. This is very important in cases where such cables are being used to power electric motors, fluorescent lamps or triplephase voltage. Where the above is not possible, use only shielded cables, where the shield is grounded only in the alarm system box.

Technical Features:

Feature	ECLIPSE 8	ECLIPSE 8+ ECLIPSE 16		ECLIPSE 32	ECLIPSE 99	
Zones (on board)	6	8	16	8	8	
Max. Zones, expanded	8	16*	16	32**	99***	
Areas	1	3	3	8	16	
4 x 100mA Outputs	✓	\checkmark	\checkmark	\checkmark	~	
1 x 1A Output	 ✓ (Not monitored) 	 ✓ (Not monitored) 	✓ (Not monitored) ✓ (Not monitored)		✓ (Monitored)	
Max. Outputs, expanded	5	8	8	32	99	
User Codes	8	32	32	64	99	
Schedules	-	-	-	\checkmark	~	
LOG Events	1024	1024	1024	1024	5000	
BUS Devices	2	5	5	30	30	
Programming	Address, Operation, Text menus; ProsTE software					
Arming modes	Full, Stay, Sleep					
Digital communicator	 ✓ (2 tel. numbers) ✓ (4 tel. numbers) 					
Voice Dialer (option)	✓ (8 tel. numbers)					
Remote programming		-		```	/	

* NOTE: The full configuration of 16 zones can be realized with doubling zone connection.

** NOTE: The full configuration of 32 zones can be realized with doubling zone connection (16 logical zones on the control PCB) and 1 Zone expander for 8 zones (16 logical zones) or without zone doubling with connection of 3 zone expanders to the panel. *** NOTE: The configuration up to 99 zones can be realized with doubling zone connection (16 logical zones on the control PCB) and 5 Zone expanders with 8 zones

each (16 logical zones) or without zone doubling with connection of 11 zone expanders to the panel.

Technical Specifications:

Specification	ECLIPSE 8	ECLIPSE 8+	ECLIPSE 32	ECLIPSE 99		
Mains Power Supply		230 VAC ±10%, fuse 0.63A				
Mains Transformer	17 VA	17 VAC/17 VA 17 VAC/23 VA 21 VAC/50 VA				
Accumulator charger	13.8	13.8V, resettable fuse 0.75A 13.8V, resettable fuse 2.5A				
Back-up Power Supply	1 x Accumulator 12 V/7 Ah					
Consumption	100 mA (for control panel)					
Enclosure	ABS plastic box, white					
Dimensions, mm	290 x 240 x 80 335 x 290 x 105					
Operation temperature	from 0°C to 50°C					
Relative humidity	95%					
Weight, kg (without battery)		1.40		2.30	2.40	

2. INSTALLATION

2.1. Control Panels Mounting

The ECLIPSE series alarm control panels are available in plastic box for wall mounting. There is additional space for mounting of communication and expander modules in the box.

2.1.1 ECLIPSE 8/8+/16

ECLIPSE 8/8+/16 Alarm Control Panel is mounted in a white plastic box with dimensions 290 x 240 x 80mm. There is additional space for mounting of one communication module in the box. For the back-up battery is provided special place. The box is equipped also with a transformer unit and 230V connection terminal with protective fuse. The front cover is fixed with two mounting screws provided in the spare parts kit. Before the installation, break out the protective caps for the front panel from the bottom box – see the picture below. After fixing the front panel with the screws put also the protective caps on their places.



Figure 1. ECLIPSE 8/8+/16 box elements



In ECLIPSE 8/8+/16 final closing, use the supplied screws in the spare parts kit to fix the front cover to the mounted bottom. Use the plastic caps (position ⑦ at Figure 1) previously broken out from the box bottom to hide the screw heads at final closing.

Figure 2. ECLIPSE 8/8+/16 final closing

2.1.2 ECLIPSE 32/99

ECLIPSE 32/99 Alarm Control Panel is mounted in a white plastic box with dimensions 335 x 290 x 105mm. There are additional spaces for mounting of one communication module in the box and one expander module (ECLIPSE 32 - under the main PCB). For the back-up battery is provided special place. The box is equipped also with a transformer unit and 230V connection terminal with protective fuse.

① - General support opening of the box (situated under the PCB);

③ - ECLIPSE 32/99 control panel;

④ - Mains power supply terminal

6 - Additional cable openings:

Remove the plastic caps from the

box bottom and fix the cable with

⑦ - Mains power supply opening;
⑧ - Place for mounting of tamper-

switch (the tamper-switch is not

X

included in the supplied

② - Support openings;

⑤ - Main cable opening;

with fuse 0.63A;

them:

equipment).

Tamper

Regulation

The front cover is fixed with two mounting screws and nuts provided in the spare parts kit.



Figure 3. ECLIPSE 32/99 box elements

In ECLIPSE 32/99 final closing, use the supplied screws and nuts in the spare parts kit to fix the front cover to the mounted bottom.



0 - Put the nuts into the nests on the backside of the front cover;

@ - Take the screws with interrupted thread and screw on them into the openings at the front cover bottom until the nut and the interrupted part come together.

- ③ Fix the front cover onto the mounted bottom;
- 4 Close the cover;
- ⑤ Screw on the screw for final closing.

Figure 4. ECLIPSE 32/99 final closing

2.2. Control Panels PCB Layouts 2.2.1 ECLIPSE 8



Figure 5. ECLIPSE 8 control panel

ECLIPSE 8 - Terminals and components:

 $\ensuremath{\text{17VAC}}$ – Power supply from a mains transformer 17V/17VA, fuse 0.63A

는 – Grounding

+/- AUX – Power supply for detectors with consumption up to 0.5A

+PGM – Power supply of auxiliary devices with consumption up to 0.5A

PGM 1-3 - Programmable outputs, 100mA, OC type (open collector)

PGM 4 – Programmable output/Serial link, 100mA, OC type (open collector)

PGM 5/SIREN - Programmable output, high power up to 1A, OC type (open collector), for connecting siren

Z1-Z6 – Zone inputs

COM – Common ground for the zones

R(red), G(green), Y(yellow), B(black) - System bus interface for connection of keyboards and proximity card readers.

Jumper RESET – Jumper for total hardware reset of the control panel

Serial – PC Interface connection

Service KBD - Connecting a service keyboard - see also item 6 (available for HW 1.5 and higher)

VOICE - Interface connector for mounting of Voice module ECLIPSE VD

BATT - Terminals for connecting the back-up battery

USB – Micro USB port for programming with ProsTE software (available for HW 2.0 and higher)

PSTN terminals:

TIP1, RING1 – Connect the telephone device TIP, RING – Connect the PSTN line

Fuses, PTC type:

F1 – Fuse for the back-up battery: 0.75A

F2 – Fuse for PGM outputs: 0.5Å

F3 – Fuse for AUX outputs: 0.5A

LED indication:

- PSTN LED LED for the status of the built-in digital communicator.
 - BUS LED LED for the status of the system bus:

BUS LED	Lights on permanently	Blinks in pulses
Red	RESET Jumper is set; Problem with the system bus; no communication	Low power supply
Orange	Short circuit of the system bus	Wrong connection of the system bus
Green	Selected device of the system bus	Normal operation mode

2.2.2 ECLIPSE 8+



Figure 6. ECLIPSE 8+ control panel

ECLIPSE 8+ - Terminals and components:

17VAC – Power supply from a mains transformer 17V/17VA, fuse 0.63A

≟ – Grounding

+/- AUX – Power supply for detectors with consumption up to 0.5A

+PGM – Power supply of auxiliary devices with consumption up to 0.5A

PGM 1-4 – Programmable outputs, 100mA, OC type (open collector)

PGM 5/SIREN - Programmable output, high power up to 1A, OC type (open collector), for connecting siren

Z1-Z8 – Zone inputs

COM – Common ground for the zones

R(red), G(green), Y(yellow), B(black) - System bus interface for connection of keyboards, proximity card readers, expanders, etc.

Jumper RESET – Jumper for total hardware reset of the control panel

Serial - PC Interface connection

Service KBD - Connecting a service keyboard - see also item 6 (available for HW 1.1 and higher)

VOICE - Interface connector for mounting of Voice module ECLIPSE VD

BATT – Terminals for connecting the back-up battery

USB – Micro USB port for programming with ProsTE software (available for HW 1.1 and higher)

PSTN terminals:

TIP1, RING1 – Connect the telephone device TIP, RING – Connect the PSTN line = – Grounding

Fuses, PTC type:

F1 – Fuse for the back-up battery: 0.75A

F2 – Fuse for PGM outputs: 0.5Å

F3 - Fuse for AUX outputs: 0.5A

LED indication:

• PSTN LED – LED for the status of the built-in digital communicator.

BUS LED – LED for the status of the system bus:

BUS LED Lights on permanently		Blinks in pulses
Red	RESET Jumper is set; Problem with the system bus; no communication	Low power supply
Orange	Short circuit of the system bus	Wrong connection of the system bus
Green	Selected device of the system bus	Normal operation mode

2.2.3 ECLIPSE 16



Figure 7. ECLIPSE 16 control panel

ECLIPSE 16 - Terminals and components:

17VAC – Power supply from a mains transformer 17V/23VA, fuse 0.63A

≟ – Grounding

+/- AUX – Power supply for detectors with consumption up to 0.5A

+PGM - Power supply of auxiliary devices with consumption up to 0.5A

PGM 1-4 – Programmable outputs, 100mA, OC type (open collector)

PGM 5/SIREN - Programmable output, high power up to 1A, OC type (open collector), for connecting siren

Z1-Z16 – Zone inputs

COM – Common ground for the zones

R(red), G(green), Y(yellow), B(black) - System bus interface for connection of keyboards, proximity card readers, expanders, etc.

Jumper RESET – Jumper for total hardware reset of the control panel

Serial – PC Interface connection

Service KBD - Connecting a service keyboard - see also item 6 (available for HW 1.1 and higher)

VOICE - Interface connector for mounting of Voice module ECLIPSE VD

BATT – Terminals for connecting the back-up battery

USB - Micro USB port for programming with ProsTE software (available for HW 1.5 and higher)

PSTN terminals:

TIP1, RING1 – Connect the telephone device TIP, RING – Connect the PSTN line = – Grounding

Fuses, PTC type:

F1 – Fuse for the back-up battery: 0.75A

F2 – Fuse for PGM outputs: 0.5A

F3 – Fuse for AUX outputs: 0.5A

LED indication:

• PSTN LED – LED for the status of the built-in digital communicator.

BUS LED – LED for the status of the system bus:

BUS LED Lights on permanently		Blinks in pulses	
Red	RESET Jumper is set; Problem with the system bus; no communication	Low power supply	
Orange	Short circuit of the system bus	Wrong connection of the system bus	
Green	Selected device of the system bus	Normal operation mode	

2.2.4 ECLIPSE 32



Figure 8. ECLIPSE 32 control panel

ECLIPSE 32 - Terminals and components:

21VAC – Power supply from a mains transformer 21V/50VA, fuse 0.63A

📥 – Grounding

+/- AUX – Power supply for detectors with consumption up to 0.75A

+PGM – Power supply of auxiliary devices with consumption up to 0.75A

PGM 1-3 – Programmable outputs, 100mA, OC type (open collector)

PGM 4 – Programmable output/Fire zone (programmed at Menu 3. Programmable outputs), 100mA, OC type (open collector) **PGM 5/BELL** – Monitored programmable output, high power up to 1A, OC type (open collector), for connecting siren **Z1-Z8** – Zone inputs

COM – Common ground for the zones

R(red), G(green), Y(yellow), B(black) - System bus interface for connection of keyboards, proximity card readers, expanders, etc.

Jumper RESET – Jumper for total hardware reset of the control panel

Serial – Interface for PC connection

Service KBD - Connecting a service keyboard - see also item 6 (available for HW 1.8 and higher)

VOICE - Interface connector for mounting of Voice module ECLIPSE VD

BATT – Terminals for connecting the back-up battery

USB – Micro USB port for programming with ProsTE software (available for HW 2.3 and higher)

PSTN terminals:

TIP1, RING1 – Connect the telephone device TIP, RING – Connect the PSTN line

Fuses, PTC type:

- F1 Fuse for the back-up battery: 2.5A
- **F2** Fuse for PGM outputs: 0.75A
- F3 Fuse for AUX outputs: 0.75A
- **F4** Fuse for the system bus: 0.5A

LED indication:

PSTN LED – LED for the status of the built-in digital communicator.

BUS LED – LED for the status of the system bus:							
BUS LED	Lights on permanently	Blinks in pulses					
Red	RESET Jumper is set; Problem with the system bus; no communication	Low power supply					
Orange	Short circuit of the system bus	Wrong connection of the system bus					
Green	Selected device of the system bus	Normal operation mode					

2.2.5 ECLIPSE 99



Figure 9. ECLIPSE 99 control panel

ECLIPSE 99 - Terminals and components:

21VAC – Power supply from a mains transformer 21V/50VA, fuse 0.63A

📥 – Grounding

+/- AUX – Power supply for detectors with consumption up to 0.75A

+PGM – Power supply of auxiliary devices with consumption up to 0.75A

P1/REL (COM/NO/NC) - Relay output, 10A@250VAC, 10A@30VDC

PGM 2, 3 – Programmable outputs, 100mA, OC type (open collector)

PGM 4 – Programmable output/Fire zone (programmed at Menu 3. Programmable outputs), 100mA, OC type (open collector) **PGM 5/BELL** – Monitored programmable output, high power up to 1A, OC type (open collector), for connecting siren

Z1-Z8 – Zone inputs

COM – Common ground for the zones

R (Red), G (Green), Y (Yellow), B (Black) - System bus interface (System BUS 1) for connection of keyboards, proximity card readers, expanders, etc.

Y (Yellow), G (Green) - System bus interface (System BUS 2) for connection of keyboards, proximity card readers,

expanders, etc. (Note: You can also use an external power supply to power the devices connected to BUS 2.)

Jumper RESET – Jumper for total hardware reset of the control panel

Serial – Interface for PC connection

Service KBD – Connecting a service keyboard – see item 6 (available for HW 1.2 and higher)

VOICE - Interface connector for mounting of Voice module ECLIPSE VD

BATT – Terminals for connecting the back-up battery

USB – Micro USB port for programming with ProsTE software (available for HW 1.4 and higher)

PSTN terminals:

TIP1, RING1 – Connect the telephone device TIP, RING – Connect the PSTN line

📥 – Grounding

Fuses, PTC type:

F1 – Fuse for the back-up battery: 2.5A

F2 – Fuse for PGM outputs: 0.75A

F3 – Fuse for AUX outputs: 0.75A

F4 – Fuse for the system bus: 0.5A

LED indication:

BUS 1 LED – LED Indication for the status of the System BUS 1* **BUS 2 LED** – LED Indication for the status of the System BUS 2* **PSTN LED** – LED Indication for the status of the built-in digital communicator.

* The indication is the same as described for ECLIPSE 32 control panel – refer to item 2.2.4.

2.3. Zone Connection

|--|

Control panel	Max. Zone	Connection styles	Doubling zones
ECLIPSE 8	8	5	×
ECLIPSE 8+	16	9	\checkmark
ECLIPSE 16	16	5	×
ECLIPSE 32	32	9	\checkmark
ECLIPSE 99	99	9	\checkmark

2.3.1 Connection Style Diagrams

There are different connections styles for the zones (single and doubling) in the Eclipse system. The connection style is assigned in Menu 4. INPUTS (ADDRESS 2000 or OPERATION 200) and it is common for all zones in the system.

ATTENTION:

ECLIPSE 8/16 Control panels support only single connection in the zones. ECLIPSE 8+/32/99 Control panel supports both single and doubling connection in the zones.



Figure 10. Connection styles diagrams

Examples for realizing different connection styles using TITAN series detectors.

NOTE: The connection style 3. NO with EOL is applicable only for detectors with normal open (NO) type terminals.



Figure 11. Examples for detector connection

2.3.2 Connecting shutter detector to a zone (for ECLIPSE 8+/16/32/99)

The hardware implementation of Zone with set attribute "Pulse count" permits performance in pulse count mode, suitable for connecting a rolling shutters detector. This mode counts short pulses - 2 to 4 ms for a period of 20 seconds. The first pulse starts a 20-second countdown during which pulses are expected to be received. Their number is assigned at Address 2003 of the engineer programming. An alarm signal is emitted when this number is reached within the time of 20 seconds. Otherwise, the pulse counter will be zeroed after the time of 20 seconds expires. Activating the pulse count mode will automatically start when a number other than 0 is keyed in at Address 2003 of the engineer programming.



Figure 12. Connecting of rolling shutter detector

2.3.3 Checking the line resistance

The engineer can check the line resistance of the zone after the initial power-up of the system. It is suitable to perform diagnostics of the zone troubles. The line resistance can be checked at address 2xx9, where "xx" in the zone number. The address is accessible only through LCD type keyboard.

NOTE: The double zone connection is available in ECLIPSE 8+, ECLIPSE 32 and ECLIPSE 99 control panels! The displayed value can vary according the used hardware connection style in the system and has the following meaning:

Connection style		Displayed value	Description	
	4	< 1.5 kΩ	The zone is closed.	
	I	> 1.5 kΩ	The zone is open.	
		< 0.75 kΩ	The zone is open.	
E	2	0.75 – 1.5 kΩ	The zone is closed.	
Ę.		> 1.5 kΩ	The zone is open.	
nec		< 0.75 kΩ	The zone is open.	
ou	3	0.75 – 1.5 kΩ	The zone is closed.	
0 0		> 1.5 kΩ	The zone is open.	
LO LO		< 0.75 kΩ	The zone is closed.	
ez	4	0.75 – 5.6 kΩ	The zone is open.	
lĝn		> 5.6 kΩ	Tamper break down.	
Si		< 0.75 kΩ	Tamper short-circuit.	
	F	0.75 – 1.5 kΩ	The zone is closed.	
5		1.5 - 5.6 kΩ	The zone is open.	
		> 5.6 kΩ	Tamper break down.	
	6	< 0.5 kΩ	The both zones are closed.	
		0.5 – 1.5 kΩ	The 1 st zone is open, the 2 nd zone is closed.	
	0	1.5 – 2.7 kΩ	The 1 st zone is closed, the 2 nd zone is open.	
		2.7 kΩ - ∞	The both zones are open.	
		< 0.5 kΩ	The both zones are closed.	
c		0.5 – 1.5 kΩ	The 1 st zone is open, the 2 nd zone is closed.	
tio	7	1.5 – 2.7 kΩ	The 1 st zone is closed, the 2 nd zone is open.	
ect		2.7 – 4.9 kΩ	The both zones are open.	
uu		> 4.9 kΩ	Tamper break down.	
S S		< 0.75 kΩ	Tamper short-circuit.	
ane.		0.75 – 1.5 kΩ	The both zones are closed.	
Ň	Q	1.5 – 2.5 kΩ	The 1 st zone is open, the 2 nd zone is closed.	
pla	0	2.5 – 3.7 kΩ	The 1 st zone is closed, the 2 nd zone is open.	
Do		3.7 – 4.9 kΩ	The both zones are open.	
		> 4.9 kΩ	Tamper break down.	
		< 0.5 kΩ	Tamper short-circuit.	
		0.5 - 0.75 kΩ	The both zones are closed.	
	9	0.75 - 1.5 kΩ	The 1 st zone is closed, the 2 nd zone is open.	
		1.5 – 2.7 kΩ	The 1 st zone is open, the 2 nd zone is closed.	
		> 2.7 kΩ	The both zones are open.	

2.3.4 Connecting Fire Lines

Fire detectors can be connected to every zone set as Fire type zone.

For ECLIPSE 8 and ECLIPSE 16 is possible to realize only 4-wire connection of 12V alarm fire base with one or two balancing resistors.

For ECLIPSE8+, ECLIPSE 32 and ECLIPSE 99 is possible to realize 4-wire connection of 12V alarm fire base with one or two balancing resistors and also connection of two fire detectors to a doubling zone.

PGM 4 for ECLIPSE 32 and ECLIPSE 99 has a special functionality. The output can be programmed to operate as Fire zone with realizing of 2-wire connection of standard 24V fire alarm base.





2.4. Connection of Peripheral Devices

2.4.1 Connection to the System Bus

Control panel	Max. devices on system bus	Keyboards	Proxy	Zone exp.	PGM exp.	Wireless exp.
ECLIPSE 8	2	\checkmark	\checkmark	×	×	×
ECLIPSE 8+	5	✓	\checkmark	\checkmark	×	✓
ECLIPSE 16	5	✓	\checkmark	\checkmark	×	✓
ECLIPSE 32	30	✓	\checkmark	\checkmark	\checkmark	✓
ECLIPSE 99	30	✓	\checkmark	\checkmark	\checkmark	\checkmark

ECLIPSE Control Panels Series – DEVICE capability:

All ECLIPSE Series peripheral devices are connected to the system bus – power and data terminals, located at the right bottom corner and labeled as: B - Black (0V), R - Red (+12V), Y - Yellow and G - Green (both for data transfer).

When connecting devices to the system bus, assure first to turn off the main and the backup power supply of the control panel and **strictly observe the polarity of wires as shown on Figure 14**.

The maximal distance between the control panel and the last device on the system bus is 250m without using external power supply. Keep in mind that this distance might be shorter and depends on the number of peripheral devices connected to the bus. The great number of devices will cause voltage drop in the cable. Refer to the technical specification tables for used keyboards and expander modules to calculate the possible consumption of your system and the expected voltage drops.

For cable distances exceeding 250m (up to 1km) you need an external 12V power supply source connected to the system bus – B (black) (0V) and R (red) (+12V) terminals. Refer also to the connection diagram on Figure 15.



2.4.2 Supported Keyboards

Keyboard	Display	Buttons	Areas	Zones	Proximity card reader	1 x AUX PGM
LED 8	LED	Silicone	1	8	×	×
LED 16A	LED	Silicone	3	16	×	×
LED 16A VG	LED	Silicone	3	16	×	×
LED 32	LED	Silicone	8	32	✓ (option)	×
LCD 32	LCD	Silicone	Up to 16*	Up to 99*	✓ (option)	✓
LCD 32S	LCD	Sensitive	Up to 16*	Up to 99*	\checkmark	\checkmark

Summary for ECLIPSE Series Keyboards:

* Depends on the type of the control panel.



LCD 32

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LCD 32 Sensitive

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Figure 16. Front panels of ECLIPSE Series Keyboards (open cover)



Figure 17. Rear panels of ECLIPSE Series Keyboards

• Description of the keyboard rear panel elements:

- 1. Mounting holes
- 2. Main opening for cable running

3. Tamper plate. Fix the plate with a screw to the mounting surface. In case of unauthorized attempt for demounting the keyboard, the tamper plate will break out and release the tamper-switch on the keyboard's PCB.

4. Special cable channels on the back side of the rear panel.

5. Lever holder.

• Keyboard terminals:

RED, GREEN, YELLOW, BLACK - System bus interface for connection to control panel

Zone – Independent full functional keyboard zone with freely programmable parameters. It can be used as additional zone to control panel and must be attached to a zone number at address 2xx0 (xx is the zone number) with the respective number of the device.

GND – Common ground

PGM (LCD 32 and LCD 32 Sensitive) – Programmable output, 100mA, OC type

Feature	LED 8	LED 16A	LED 16A VG	LED 32	LCD 32	LCD 32 Sens.	
GRADE Conformity	-	GRADE 2, Class II*	-	-	GRADE 3, Class II*	-	
Power Supply		9-18V (nom. 14V)					
Consumption	Min. 50mA/ Max. 80	Min. 50mA/ Max. 80	Min. 60mA/ Max. 140	Min. 60mA/ Max. 140	Min. 60mA/ Max. 100	Min. 50mA/ Max. 100	
Operation temperature		-20 ÷ +50°C					
Tamper		Yes					
Dimensions, mm	1	00x90x24 110x134x22			22	105x130x22	

• Technical Specifications:

* In conformity with the requirements for EN 50131-1:2006 and EN 50131-3:2009.

• Sound signalization from keyboards

All Eclipse Series Keyboards have sound signalization for occurring of different system events. The sound signalization has 4 volume levels adjustable in the Manager programming menus (Menu 5.KBD Settings -1. Buzzer level or at address 90):

Sound Signal	Description
Button	Single short beep indicating the pressing of a key.
Confirmation	Two long sound signals, indicating the system confirmation to executed operation.
Cancel operation	A single long beep, indicating system incorrectly executed operation.
Entry time	Continuous beep, indicating intrusion into an entrance zone.
Exit time	Short beeps, indicating the system is armed and the user is required to leave the entrance zone. 10 seconds before the exit time is over beep frequency increases.
Technical problem	Two short beeps at every 20 sec, indicating a technical trouble. To stop the sound signalization – enter a valid user code and press in sequence TROUBLE and ENTER buttons (for LED 16A VG, LED32, LCD32, LCD32 Sensitive keyboards), or twice ENTER button (for LED8 and LED16A keyboards).
Chime	Short beeps with subsequently increasing period, indicating intrusion into a zone with an activated chime option.
Fire alarm	Three sound signals in sequence repeated every 5 seconds. That kind of signalization shows activated fire detector in the premises.

Buttons Functions

NOTE: The functionality of BYPASS, TROUBLE and MEMORY buttons for LED 8 and LED 16A keyboards is accessible through the manager and user menus only with the respective LED indication on the display.

Button	Function	Description
	ENTER	Confirmation of the entered data; step ahead in the engineer programming menus. <u>For LED 8 and LED 16A keyboards</u> : Use the button to review the memory log file, the system troubles and the bypassed zones – the respective system LED is blinking during the review.
X	CANCEL	Canceling the entered parameters; exit from a programming mode.
	FULL ARM	Quick button for Full Arming Mode.
	DISARM	Disarming the system. The button has a special function in text entering mode – deletes the current symbol and moves the cursor on one position to the left (like Backspace button on a standard PC keyboard).
	STAY ARM	Quick button for Stay Arming Mode. The button has a special function in text entering mode – shifting between small and capital letters.
C	SLEEP ARM	Quick button for Sleep Arming Mode.
	PRG	Entry in Manager and User programming modes. Entry in Service Keyboard Mode. The button has a special function in engineer programming mode – saving the entered settings and moves forward as the current index number is increased with +1.
	BYPASS	Bypassing zones. The button lights on permanently if there are bypassed zones in the system. The button is blinking during the bypassed zones review. The button has a special function in engineer programming – canceling the entered settings and moves forward as the current index number is increased with +1, option 0.
	TROUBLE	Reviewing the system troubles. The button lights on permanently if there are system problems. The button is blinking during the system troubles review.
	MEMORY	Reviewing the memory events log file. The button lights on permanently if there are memory events. The button is blinking during the memory events review. The button has a special function in text entering mode – entering of special symbols.
	Scroll arrows	Arrows for moving the cursor on the left and on the right in programming mode.
0 - 9	Digit Buttons	Digital buttons for entering parameters, codes, etc. <u>For LED 16A VG keyboard:</u> Use button 1 to arm/disarm AREA A; button 2 to arm/disarm AREA B; button 3 to arm/disarm AREA C.

• Supported voice messages for Eclipse LED 16A VG

The control keyboard Eclipse LED 16A VG is equipped with voice guiding messages for events to support user operation. The following messages are performed:

"System is armed" - The exit time is over and the system is armed (Full, Stay or Sleep mode).

"System is disarmed" - The entry time is over and the system is disarmed.

"Please, enter your code to disarm" – The entry time is running on. The message is played on every 5 seconds until a valid user code is entered and the system is disarmed.

"Please, leave the premises" – The exit time is running on. The message is played on every 5 seconds until the system is armed (Full, Stay or Sleep mode).

"AC power is failure" – The main power supply is missing or off. The message is played after disarming the system; during exit time is running on; activation of entry-exit or follow type zone when the system is disarmed.

"Battery is discharged" – The backup battery is low charged or missing. The message is played after disarming the system; during exit time is running on; activation of entry-exit or follow type zone when system is disarmed.

Attention: The voice messages cannot be muted or switched off. They can be only silenced at address 90 (text menu "5. KBD Settings – 1. Busser Level") in the manager programming menus. The volume level can be set in range from 1 (the lowest) to 4 (the highest).

• Correspondence between the ECLIPSE panels and the supported areas from keyboards

You must consider the following important notes for Eclipse Series Keyboards, when design and organize the security system including ECLIPSE panels!

ECLIPSE 8:

Koyboard	Display type	Indication
Reyboard	Display type	Area 1
LED 8	LED Icon	No specific indication
LED 16A	LED Icon	A
LED 16A VG	LED Icon	А
LED 32	LED Icon	A1
LCD 32 (S)	LCD Text	1

ECLIPSE 8+ and ECLIPSE 16:

Koyboard	Display type		Indicatio	on	
Reyboard	Display type	Area 1	Area 2	Area 3	
LED 8*	LED Icon	One Area: No specific indication			
LED 16A	LED Icon	А	В	С	
LED 16A VG	LED Icon	А	В	С	
LED 32	LED Icon	A1	A2	A3	
LCD 32 (S)	LCD Text	1	2	3	

ECLIPSE 32 and ECLIPSE 99:

Koyboard	Display type	Indication							
Reyboard		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
LED 8*	LED Icon	One Area	: No specif	ic indicatio	n				
LED 16A**	LED Icon	Three Are	eas: A, B ai	nd C indica	ation				
LED 16A VG**	LED Icon	Three Are	Three Areas: A, B and C indication						
LED 32***	LED Icon	A1	A2	A3	A4	A5	A6	A7	A8
LCD 32 (S)	LCD Text	1	2	3	4	5	6	7	8

* **Note:** LED 8 keyboard supports operation with only one area in the system. The area number is set at address 8xx1, where "xx" is the keyboard number in the system.

** **Note:** LED 16A / LED 16A VG keyboard supports operation with three independent areas in the system. The area numbers are set in menu 9.DEVICES-XX.Device-2.AREA (address 8xx1), where "xx" is the keyboard number in the system. The areas are displayed as A, B and C, where A is the area with the smaller number, and C - the area with higher one. Note that there may not be direct correspondence between the area number and the keyboard indication letter.

*** **Note:** When connected to Eclipse 99 the installer can associate up to 8 areas to one LED32 keyboard. The area numbers are set in menu 9.DEVICES-XX.Device-2.AREA (address 8xx1), where "xx" is the keyboard number in the system. The areas are displayed as A1-A8, where A1 is the area with the smaller number, and A8 - the area with higher one. Note that there may not be direct correspondence between the area number and the keyboard indication letter.

2.4.3 Supported Wired Expander modules

Summary for ECLIPSE Series	Expander modules:
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Module	Description	ECLIPSE 8	ECLIPSE 8+	ECLIPSE 16	ECLIPSE 32	ECLIPSE 99
ZONE 8	8-Zone expander	×	~	✓	~	✓
PGM 8	8-PGM expander	×	×	×	~	~
ZONE 8 PS	8-Zone expander with power supply	×	~	~	~	~
PGM 8 PS	8-PGM expander with power supply	×	×	×	~	~

The ECLIPSE Series expander modules are connected to the system bus. Every module is available in two variants:

a) PCB with power supply from the control panel (ZONE 8 and PGM 8);

b) PCB with own power supply (ZONE 8 PS and PGM 8 PS)

The Eclipse modules ZONE 8 and PGM 8 can be situated in the panel's box – see Figures 1 and 3 - or into a separate small plastic box SB-U (sold separately).

ATTENTION: It is possible to mount the ZONE 8 and PGM 8 modules under the main PCB of ECLIPSE 32 only!

The Eclipse modules ZONE 8 PS and PGM 8 PS are designed for mounting in big box with transformer unit and 230V terminal.

• Installation in the box of ECLIPSE 32 control panel

ATTENTION: The full configuration of 32 zones in ECLIPSE 32 can be realized with doubling zone connection (16 logical zones on the control PCB) and 1 Zone expander for 8 zones (16 logical zones) or without zone doubling with connection of 3 zone expanders to the panel.

Remove the PCB of the ECLIPSE 32 control panel – the PCB is secured with two clips from both sides. Mount the expander module PCB to the bottom of the box:

- 1. Fix the upper side of the PCB into the holders as shown on the Figure 18.
- 2. The pins of the bottom must fit in the PCB openings.
- 3. Press the PCB of the expander downwards to secure with the clips.

4. Mount back the PCB of the ECLIPSE 32 control panel above the expander – fix it into the upper holders (4) and press down to secure in the side clips (5).

5. Connect the 8-Zone Expander to the ECLIPSE 32 serial system bus as observe the polarity – see Figures 14 and 15.



Figure 18. Example for mounting of expander module in the ECLIPSE 32 panel box

BUS LED	Lights on	Blinking					
Red	Problem with the system bus; no communication	Low power supply					
Orange	Short circuit of the system bus	Wrong connection of the system bus					
Green	Selected device of the system bus	Normal operation mode					

LED indication of expander modules ZONE 8, PGM 8, ZONE 8 PS and PGM 8 PS

• Expanders' Terminals and Specifications





Technical Specifications	:
Main power supply	230VAC +10%/ -15%
Transformer	17V/17 VA
Backup power supply	12V/7 Ah
Consumption	Min. 30mA/Max. 750mA
Zone inputs	8
PGM outputs	1
Operation temperature	-20°C ÷ 50°C
Storage temperature	-40°C ÷ 60°C

17VAC – Power supply from a mains transformer 17V/17VA, fuse 0.63A.

BATT – Terminals for connecting accumulator battery.

+/- AUX – Power supply for detectors with consumption up to 0.75A.

+PGM – Power supply for auxiliary devices with consumption up to 0.75A.

PGM 1 – Programmable output, 100mA, OC type (open collector).

Z1-Z8 – Zone inputs. Every input is independent full functional zone with freely programmable parameters. Every additional input must be attached to a zone on the control panel.

COM – Common ground for the zones.

R(red), G(green), Y(yellow), B(black) - System bus interface for connection to control panel.

Tamper – Terminals for Tamper switch. Set a jumper on the terminals if the tamper switch is not used.

F1 – Fuses for PGMs output, 100mA.

Button – Button for enrollment of the module to the system configuration.



Technical	Specifications:
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Main power supply	230VAC +10%/ -15%
Transformer	17V/17 VA
Backup power supply	12V/7 Ah
Consumption	Min. 30mA/Max. 750mA
PGM outputs, 100mA, OC type	8
Operation temperature	-20°C ÷ 50°C
Storage temperature	-40°C ÷ 60°C

17VAC – Power supply from a mains transformer 17V/17VA, fuse 0.63A

BATT - Terminals for connecting accumulator battery

+PGM – Power supply for auxiliary devices with consumption up to 0.75A

PGM 1-8 – Programmable outputs, 100mA, OC type (open collector). Every output is independent full functional PGM with freely programmable parameters. Every additional output must be attached to a PGM number on the control panel.

GND – Common ground for the outputs.

R(red), G(green), Y(yellow), B(black) - System bus interface for connection to control panel.

Tamper – Terminals for Tamper switch.

F1 – Fuse for PGM output, 100mA.

Button – Button for enrollment of the module to the system configuration.

2.4.4 Supported Wireless Expander Module

Eclipse WL is a wireless expander module designed for building of hybrid alarm systems with Eclipse 8+/16/32/99 control panels and wireless devices BRAVO series.

Up to 4 separate Eclipse WL modules can be connected to one Eclipse control panel.

Eclipse WL is mounted in a small plastic box and it is connected to the system bus of the control panel – see connection diagram on Figures 14 and 15.

The BRAVO series includes:

- BRAVO PIR, BRAVO PIR GJD Wireless motion detectors
- BRAVO Curtain Wireless Curtain type detector
- BRAVO MC Wireless magnetic contact
- BRAVO FL Wireless flood detector
- BRAVO FD Wireless fire detector
- BRAVO SR200/SR300LIT/SR300ALK Wireless outdoor sirens
- BRAVO RC Two-way remote key fob
- BRAVO RC-41/RC-21/RC-11 One-way remote key fobs



Functional operation diagram of Eclipse hybrid system.

Attention: The minimum distance between Eclipse WL and enrolled to it peripheral devices BRAVO must be 1 meter to guarantee the correct operation of the system.

Important: The radio distance of Eclipse WL wireless expander module could vary according the construction and the building materials of the site, where the wireless detectors are installed.

Technical Specifications of Eclipse WL:

Power supply from the panel	9 ÷ 18V DC
Consumption	Max. 150mA
Operation frequency	~ 868MHz
Radio distance (open space)	Up to 400 meters
Operation temperature	0°C ÷ 40°C
Storage temperature	-10°C ÷ 50°C

Elements of Eclipse WL:



1. Terminal row:

- Tamper Connect the wires of the tamper-switch of the box.
- R(red), G(green), Y(yellow), B(black) Interface for connecting to the panel.

Number of supported wireless devices:

8+/16

Max. 16

Max. 32

Control panel Eclipse

32

Max. 32

Max. 64

99

Max. 99

Max. 99

2. LED for module's current state (Status LED)

Device type

PIR, MC, FL, FD and SR

RC, RC-41/RC-21/RC-11

- 3. TEST Button not used.
- 4. RESET Button erasing of all enrolled to Eclipse WL wireless devices.

5. LED for current status of the system bus (BUS LED) – in normal operation mode the LED is blinking in green during communication with the panel.

6. TMP Jumper (TAMPER) – set a jumper in case the tamper switch of the box is not used.

7. PWR Jumper (POWER) – set a jumper in case you need to increase the module's sensitivity for receiving signals from wireless devices.

Attention: When the PWR jumper is set, the minimum distance between Eclipse WL and enrolled to it devices BRAVO series must be 2 meters!

- 8. Tamper-switch for self-protection of the plastic box.
- 9. Holes for fixing the module to the plastic box bottom.

2.4.5 Supported Proximity Card Readers

Reader	Description	ECLIPSE 8	ECLIPSE 8+	ECLIPSE 16	ECLIPSE 32	ECLIPSE 99
PR IT	Reader for built-in installation	\checkmark	✓	~	~	\checkmark
Eclipse PR	Stand-alone proximity card reader	✓	✓	~	~	✓

Summary for ECLIPSE Series Proximity Card Readers:

The proximity card readers are control devices for management of ECLIPSE 8/8+/16/32/99 security systems.

The ECLIPSE proximity readers are connected to the system bus observing the polarity.

The readers are equipped with three-color LED indication for the selected arming mode and sound signalization for announcing current events. The arming and disarming of the system via proximity reader is with using standard proximity cards, tags or other 125kHz passive transponders.

It is possible that only proximity-card readers be included in a system without having an installed keyboard. In such systems this would hinder current programming of parameters and cards, as well as Log Review and Technical Trouble indications. Portable LED or LCD type keyboards can be used to accomplish such tasks.

Up to 8/32/64/99 cards can be assigned to one ECLIPSE 8/8+/16/32/99 security systems - one card for each of the users.

The Managers in the system are allowed to program the performance of the cards.

Arming and/or disarming rights must be assigned for the respective user code.

The user may not be designated a code combination. In such case the only way to control the security system would be the proximity-card.

The parameters and functions of the proximity card readers are programmed in Menu 9. DEVICES, according to the realized system configuration.

• Installation of proximity reader PR IT

Technical Specification:	n:
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Power supply	9 ÷ 18V DC (Nom. 14V)
Consumption	Min. 70mA/Max.100mA
Operation temperature	-20°C ÷ 50°C
Dimensions, assembled	55x48x19mm

The PR IT proximity reader is designed for built-in installation in electrical sockets via specialized DIN box.

Description of PR IT elements:

R (red), G (green), Y (yellow), B (black) - System bus interface for connection to control panel;

Status LED – LED indicator for the status of the system bus; The LED is blinking in green during normal operation mode of the reader; the LED is lighting on in red if there is no connection with the panel;

Red, green, yellow and blue LED – LED indicators for the current active arming mode;

RF – RFID (Radio frequency identification card reader), a place for reading a proximity card or tag for operation with the system.

All LEDs are blinking in turn – the reader is not enrolled to the system; or there is no communication with the control panel.

All LEDs are blinking together – the system is in programming mode.







Figure 19. Proximity card reader PR IT

Installation of proximity reader Eclipse PR

Eclipse PR is a stand-alone proximity card reader, which is connected to the system bus of the control panel. The reader is with compact design and is suitable for wall mounting:



All LEDs are blinking in turn – the reader is not enrolled to the system; or there is no communication with the control panel.

All LEDs are blinking together – the system is in programming mode.

Mounting and description of the elements of Eclipse PR:



Figure 20. Proximity card reader Eclipse PR: a) and b) Opening the box; c) Wall mounting.

- 1 Open the box as use small plain screw driver
- 2 Pick up the cover
- 3 Slide the cover as shown on the drawing and remove it from the base
- 4 Main opening for running cables
- 5 Cable channel for running wires on the back side of the base
- 6 Mounting holes



Description of the terminal row:

RED, GREEN, YELLOW, BLACK – System bus interface for connection to control panel **ZONE** – Independent full functional zone with freely programmable parameters. It can be used as additional zone to control panel and must be attached to a zone number at address 2xx0 (xx is number of the zone) with the respective number of the device. It is suitable to connect a magnetic contact to this zone (entry-exit type). **COM** – Common ground

6

5

NO/COM/NC – Relay, volt free changeover contacts: 0.5A/125VAC; 1A/30 VDC. Internal structure of the relay:



Bus LED – LED indication for the status of the system bus; in normal operation mode the LED is blinking evenly in green.

2.5. Connection of PGM Outputs

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ECLIPSE	ECLIPSE Control Panels Series – PGM capability:				
Control panel	Max. PGM outputs	Power output, up to 1A	PGM Additional Functionality		
ECLIPSE 8	5	1 (PGM 5), non-monitored	PGM 4 - Serial link to TP2000 transmitter		
ECLIPSE 8+	8	1 (PGM 5), non-monitored	PGM 4 - Serial link to TP2000 transmitter		
ECLIPSE 16	8	1 (PGM 5), non-monitored	N.A.		
ECLIPSE 32	32	1 (PGM 5), monitored	PGM 4 - Fire zone for 24V standard fire base		
ECLIPSE 99	99	1 (PGM 5), monitored	PGM 4 - Fire zone for 24V standard fire base		

In the ECLIPSE series alarm panels PGM1, PGM2, PGM3 and PGM4 outputs have a programmable active level. This allows them to be used to transmit control signals towards external devices (e.g. a block siren input) or to directly control low-powered external devices (e.g. relays, LED, etc.).

The internal structure of all PGMs (excepting PGM5 in ECLIPSE 32 and ECLIPSE 99) is the same and is shown on Figure 21 a).

The internal structure of PGM5 in ECLIPSE 32 and ECLIPSE 99, is shown on Figure 21 b).

Important: PGM5 output in ECLIPSE 32 and ECLIPSE 99 control panels are monitored and when are used it is obligatory to be terminated with 1k resistor to +PGM terminal.

Figure 21 c) shows the connection of the relay and a light-emitting diode to the PGM. The active level of this connection is low.



Figure 21. Internal structure of PGM output and example for connection of LED

PGM 4 has a special functionality and can be programmed for different operation in ECLIPSE 8/8+/32/99 control panels.

In ECLIPSE 8/8+, when set at address 3000, PGM 4 can be used for **serial connection to TP2000 transmitter**. The serial link is realized with connection between the AC terminal of the transmitter and PGM 4 on the ECLIPSE 8/8+ – Figure 22.



Figure 22. Serial connection between TP2000 transmitter and ECLIPSE 8 control panel

Note: In Eclipse 8+ control panel, when the serial connection with TP2000 is used, the transmitting of messages is allowed only for Area 1.

In ECLIPSE 32 and ECLIPSE 99, when set at address 3000, PGM 4 can be used for fire zone operating with standard 24V fire base – see Figure 13 D.

2.6. Connection of Siren to Power PGM Output

In ECLIPSE 8/8+/16 Alarm panel, the PGM 5 (BELL) output has a programmable active level. The default configuration of PGM5 is with SIREN functionality. The output is activated in case of alarm event in the system. The output is non-monitored.

In ECLIPSE 32/99 Alarm panel, the PGM 5 (BELL) output has a programmable active level. The default configuration of PGM5 is with SIREN functionality. The output is activated in case of alarm event in the system. The output is monitored and for correct functionality you should terminate the PGM 5 output with 1K resistance.

The internal structure is identical to the one shown in Figure 21 a) and we should point out that the transmitter can pass through to GND electricity of up to 1 A.

Figure 23 shows how to connect SR110, SR120, SR200, SR300 and SR400 sirens using the BELL output to ECLIPSE 8.



Figure 23. Double- and triple-wire connection of sirens to ECLIPSE 8.

ATTENTION: The connections to ECLIPSE 8+/16/32/99 are all the same with those shown on Figure 23. For panels ECLIPSE32 and ECLIPSE99 you have to terminate the PGM 5 output with 1K resistance (connect the resistance between PGM 5 and +AUX terminals on the control panel or between +12V and BLA terminals of the siren), because the PGM 5 in ECLIPSE 32 and ECLIPSE 99 is a monitored output – Figure 24.



Figure 24. Example for triple-wire connection of SR300 to ECLIPSE 32.

2.7. Connecting the Digital Communicator

The telephone line is connected to TIP and RING terminals on the ECLIPSE 8/8+/16/32/99 Control Panel with no requirements to observe polarity (see Figures 5-9). The telephone device is connected to TIP1 and RING1 terminals on the ECLIPSE 8/8+/16/32/99 Control Panel with no requirements to observe polarity. The parameters of the digital communicator are programmed from the engineer. It is not necessary to install additional components if the digital communicator is not to be used.

You can test the Built-in Digital Communicator working efficiency in menu 4. COMM TEST (ADDRESS 0023) described in the Engineer programming Manual ECLIPSE 8/8+/16/32/99.

The menus for communicator programming are accessible only from the Engineer of the system (engineer code 7777 by default).

ECLIPSE Control Panels Series – dialer capability	:
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Control panel	Telephone numbers	Protocols	Remote programming
ECLIPSE 8	2	SIA, CID	×
ECLIPSE 8+	2	SIA, CID	×
ECLIPSE 16	2	SIA, CID	×
ECLIPSE 32	4	SIA, CID	\checkmark
ECLIPSE 99	4	SIA, CID	\checkmark

 \wedge

ATTENTION: Due to differences in PSTNs provided in different countries and territories, Teletek Electronics JSC cannot provide unconditional assurance of successful operations on every PSTN network termination point. This may be subject to changes made to the communication facilities or procedures of each individual telephone service provider.

Additionally, Teletek Electronics JSC' alarm equipment is designed to work with traditional telephone line. Please, bear in mind that the use of alarm panels over alternative telephone systems like VoIP (Voice over Internet Protocol) may not be as effective as with traditional telephone line.

If you are experiencing problems with the use of a Teletek Electronics JSC device over PSTN, please contact us for further assistance.

2.8. ECLIPSE VD Voice Dialer

The ECLIPSE VD voice dialer is an additional module to the ECLIPSE 8/8+/16/32/99 security alarm system. The dialer serves to transmit alarm event messages to the user, system status check-up and remote control of the system – arming and disarming, switching on/off of programmable outputs.

• Installation of ECLIPSE VD Voice Dialer

Attention: The voice dialer must to be installed ONLY when the mains and back-up power supplies are switched off and the micro SD memory card is set in the PCB's holder!

1. Switch off the mains and the back-up power supply of the control panel.

2. Set the spacer support as fix it to the underside of the control panel PCB – Figure 25-1.

3. Mount the Voice dialer PCB to the VOICE connector - Figure 25-2.

4. Set the mini SD card in the Eclipse VD holder – Figure 25-3.

5. Connect the PSTN telephone line to TP and RING terminals of the control panel without observing the polarity – Figure 25-4.

6. Switch on the mains and the back-up power supply of the control panel.

Figure 25.

7. Program the options and phone numbers for the voice dialer according the system organization – Menu 8. COMMUNICATION – 2. VOICE DIALER.

2.9. Connecting Communication Modules

ECLIPSE Series Control panels operate with the whole range universal communication modules produced by Teletek Electronics JSC. The GPRS and LAN modules support serial interface connection with the ECLIPSE Series control panels and offer remote management and programming via the web application AJAX SP.

The supported communication modules are:

- TTE GPRS Standard. Use a serial interface cable to connect the Eclipse panel to the GPRS module.
- TTE GPRS Simple. Use a serial interface cable to connect the Eclipse panel to the GPRS module.
- TTE LAN. Use a serial interface cable to connect the Eclipse panel to the LAN module.

- **TTE Combo.** Universal communication module via GPRS, LAN or PSTN channel and transmitting messages for events over CID communication protocol.

- **ARGUS GSM.** Connect the +PWR and –PWR terminals of ARGUS module to +AUX and – AUX terminal of the Eclipse control panel. Connect the PSTN main line to the LINE connector of ARGUS module. Connect the PHONE connector of ARGUS module to the RING and TIP terminals of Eclipse panel. Connect a telephone to RING1 and TIP1 terminals.

3. INITIAL POWER-UP and RESET ALGORITHMS

ATTENTION: The initial power-up of the control panel CANNOT be done with back-up battery supply only! First, you have to power the panel from the mains and then to connect the back-up battery!

3.1. Initial Power-up algorithm

1. Set a jumper at RESET terminals (see Figures 5-9).

2. Switch on the mains power supply.

3. The backlights of all connected to the system bus keyboards will light on permanently. Wait the system initialization to complete – 30-60 seconds according the system configuration and the number of devices connected to the system bus. The system is in ENROLLING MODE and waits for enrolling the first keyboard:

- LCD keyboards. At the screen is displayed the current software revision (of the keyboard) and a text message "Press Enter". The LED "Lightning" (AC power supply) lights on permanently. Press ENTER button for quick enrolling the device.

- *LED keyboards*.* The LED "Lightning" (AC power supply) lights on permanently. Press ENTER button for quick enrolling the device.

4. Connect the BATT leads from the control panel to the terminals of back-up battery as observe the polarity – red wire to the "+" terminal and black wire to the "-".

5. Enroll the other devices connected to the system bus - the keyboards with single pressing the ENTER button, the expander modules with pressing the little button between the two row terminals, the card reader with placing a card in front of it.

6. Remove the jumper from RESET terminals at the control panel. Do not forget that you can add other devices later following the Enrolling algorithm described in item 5.

7. Wait until the initialization of the system is running out: the BUS LED blinks for 2-3 seconds in green and then stops. 8. Test the connected detectors and other devices to zone inputs for proper operation.

9. Group the used zones and PGM outputs and program all necessary system parameters.

10. Set the actual time and date.

* **Note:** When using LED 8/16A keyboard there is no indication on the display, and all digit buttons are lighting on during the initial power-up and after full hardware reset of the system.



IMPORTANT NOTE! When enrolling devices to ECLIPSE 8 control panel, the first one is automatically added to ZONE 7, and the second to ZONE 8!

3.2. Reset Algorithm

The full hardware reset can be done when the main and back-up power supply is off. Set a jumper at RESET terminals. Proceed as describe in the item 3.1 - Initial power-up algorithm.

4. TROUBLE EVENTS

The possible system troubles are listed in the table below as the indication differs according the type of the used keyboard:

- Keyboard LED 8 – The troubles are displayed with a lighting zone LED or lighting up digit button.

- Keyboards LED 32 and LED 16A – The troubles are displayed with a lighting zone LED.

- Keyboards LCD 32 and LCD 32 Sensitive – The troubles are displayed as text messages.

- Keyboard LED 16A VG – The troubles are displayed with a lighting zone LED. Playing voice messages for "Battery Trouble" and "AC Loss" trouble events.

The sound signalization for a system trouble (two short sound signals at every 20 seconds) can be disabled/enabled in Menu 2. SETTINGS – 03. TRBL SOUNDS (ADDRESS 0013 or OPERATION 013). The signalization is common for all troubles. By default, the sound signalization for all system troubles is enabled.

	LED 32/	LCD 32/	Description		Control panels Ec		lipse
LED 8	LED 16A/ LED 16A VG	LCD 32 Sensitive			8+/16	32	99
0	0	1. AC Loss	The mains power supply is lost.		✓	\checkmark	✓
0	0	2. Battery Trouble	The accumulator battery is discharged or missing.	~	~	✓	~
B	Ð	3. Blown fuse	Blown out fuse.	✓	✓	\checkmark	✓
4	0	4. Comm. TRBL	Telephone line (PSTN) or digital communicator (GPRS) is lost. Communication with central Monitoring station fails. Sending of message (PSTN/GPRS/LAN) is impossible.		~	√	✓
G	6	5. Tamper	Open tamper in the system.		✓	\checkmark	✓
0	6	6. Sysbus err	System bus error. It could be short circuit in the line or lost device.		~	✓	~
Ø	0	7. Fire line Error	Fire Detector Loss or the fire line is broken.	×	×	\checkmark	✓
8	8	8. Siren Fault*	Problem with a connected siren; no siren connected to PGM5 (ECLIPSE 32/99).		~	✓	~
Button "1"	Θ	9. Invalid clock**	The internal clock has to be set to an actual ime and date.		~	✓	~
Button "2"	Ø	10. WL device trouble.	Possible problems: - Low battery charge of wireless device; - Wireless device lost; - Dirty chamber of a wireless fire detector.		~	✓	~
Button "3"	Ð	11. WL RF jamming.	Radio signal jamming.		✓	\checkmark	~
Button "4"	Ø	12. AUX PSU trouble.	Possible problems with power supply of expander modules: - The mains power supply is lost; - Problem with the backup battery; - Blown out fuse.		~	✓	~

* It is possible, after the initial power-up of ECLIPSE 32 or ECLIPSE 99 panel, a trouble message for 8.SOUNDER FAULT to be displayed on the screen of LCD keyboards (8 zone number lights on the LED display). That indicates some problems with sounder connected to PGM5. In case the monitored PGM is used as a standard output, you have to terminate it with 1K resistor, or to program it as regular output – disable option 1 at ADDRESS 3051.

** It is possible, the message to be displayed after the initial power-up of the panel and after every hardware reset of the system. The installer must set the actual time to clear the trouble message.

5. ENROLLING/DELETING OF DEVICES

5.1. Enrolling Devices during the Initial Power-up of the Control Panel

1. With set RESET jumper on the main PCB power-up the Eclipse control panel.

2. Wait the initial initialization of the connected to the system bus keyboards. At the end of the procedure, the bus LED of all devices including the main PCB is lighting permanently in red. A text message "SW revision XX; Press ENTER" is displayed on LCD screen, and at LED keyboards is lighting on only the power LED. For LED 8/16A only the buttons 0-9 are lighting on.

3. Start to press the ENTER button or the address button of other devices – the manufacturer recommends first to enroll the keyboards in the system, then proxy readers, modules, etc. The system starts an automatic enrollment procedure of the devices on consecutive addresses as the first is attached at address 2 (in address menus 8020). Remember that the first enrolled device to the system bus is always the main PCB of the panel. It is strongly recommended the next enrolled device to be LCD keyboard for programming, especially for system configurations with Eclipse 99 control panel.

4. Remove the RESET jumper and wait the system bus LED to stop blinking in green. The system is ready for further programming and parameter configuration.

5. Set an actual time and date.

5.2. Enrolling Devices to a working system configuration via LCD keyboard

1. Enter engineer code (7777 by default).

2. Press button "9" for direct access to menu "9. DEVICES". Use the buttons with arrows to reach a free address position for adding a new device. Choose in sequence:

XX. Device [Free] – ENTER – 1. ID – ENTER – [Free] [_____]

Press the ENTER button (for a keyboard), press the button (for module) or place a card (in front of the proxy readers) of the device connected to the system bus and which you want to enroll to the system configuration.
 After successful enrollment to the control panel, the screen displays:

[Device type] [unique ADDRESS] for the respective device.

The following device types are supported from ECLIPSE Series control panels:

Device	Description	ECLIPSE 8*	ECLIPSE 8+/16**	ECLIPSE 32***	ECLIPSE 99***
MAIN	The main PCB of the control panel	\checkmark	\checkmark	\checkmark	\checkmark
LED	Keyboard LED8/16A/16A VG/32	\checkmark	\checkmark	\checkmark	\checkmark
LCD	Keyboard LCD 32/32S	\checkmark	\checkmark	\checkmark	\checkmark
ZEXP	EXP Zone expander		\checkmark	\checkmark	\checkmark
PEXP	PGM expander	×	×	\checkmark	\checkmark
WEXP	Wireless expander	×	\checkmark	\checkmark	\checkmark
PRX	Proximity card reader	\checkmark	\checkmark	\checkmark	\checkmark
PIR Wireless motion detector		×	\checkmark	\checkmark	\checkmark
MC	Wireless magnetic contact	×	\checkmark	\checkmark	\checkmark
FLD	Wireless flood detector	×	\checkmark	\checkmark	\checkmark
FIRE	Wireless fire detector	×	\checkmark	\checkmark	\checkmark
SIRN	Wireless outdoor siren	×	✓	~	✓
REMT	Remote key fob	×	\checkmark	\checkmark	\checkmark

* **Eclipse 8:** Up to 2 devices can be enrolled to the system bus: 2 keyboards, 2 proximity card readers or 1 keyboard and 1 proximity card reader.

** Eclipse 8+/16: Up to 5 devices can be enrolled to the system bus irrespective of their type.

*** Eclipse 32/99: Up to 30 devices can be enrolled to the system bus irrespective of their type.

NOTE: It is not necessary to enroll the built-in proximity reader in keyboards LED 32 PR, LCD 32 PR and LCD 32S. The wireless devices can be enrolled only to wireless expander module Eclipse WL, which already has been added to the system configuration.

5. Press ENTER button of the used for programming keyboard. The keyboard will confirm the end of the successful enrollment procedure with sound signal.

6. The new enrolled device is in normal operation mode and ready for further programming and configuration.

Digit	Button
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

Note: Other way for enrolling of a new device is to enter its unique ID number directly at a free address as use the digit buttons – see the table at the left. The unique ID number is provided from the manufacturer with a sticker on the backside of the PCB of the device.

5.3. Enrolling Devices to a working system configuration via LED keyboard

1. Enter engineer code (7777 by default) – zone numbers 13, 14, 15 and 16 are lighting on. (For LED 8 – 1, 2, 3 and 4).

2. Enter ADDRESS 8020 and press BYPASS or PRG button several times until you reach a free address in the system – zone numbers from 1 to 16 are lighting on. (For LED 8/16A – button "0" is lighting on).

3. Press the ENTER button (for a keyboard) or the button (for module, proxy reader or other) of the device you want to enrol to the system configuration.

4. After successful enrolment to the control panel, the screen displays lighting on zone number according the type of the enrolled device (for LED 8/16A a lighting button):

No	Description	ECLIPSE 8*	ECLIPSE 8+/16**	ECLIPSE 32***	ECLIPSE 99***
1	The main PCB of the control panel	✓	\checkmark	✓	✓
2	Keyboard LCD 32/32S	✓	\checkmark	✓	✓
3	Keyboard LED8/16A/16A VG/32	✓	\checkmark	✓	√
4	Zone expander	×	\checkmark	\checkmark	\checkmark
5	PGM expander	×	×	✓	✓
6	Wireless expander	×	\checkmark	✓	✓
7	Proximity card reader	✓	\checkmark	✓	✓
11	Wireless outdoor siren	×	\checkmark	✓	✓
12	Wireless magnetic contact	×	\checkmark	✓	✓
13	Wireless motion detector	×	\checkmark	✓	✓
15	Remote key fob	×	\checkmark	✓	✓
16	Wireless fire detector	×	\checkmark	\checkmark	\checkmark
18	Wireless fire detector	×	\checkmark	\checkmark	\checkmark

* **Eclipse 8:** Up to 2 devices can be enrolled to the system bus: 2 keyboards, 2 proximity card readers or 1 keyboard and 1 proximity card reader.

** Eclipse 8+/16: Up to 5 devices can be enrolled to the system bus irrespective of their type.

*** Eclipse 32/99: Up to 30 devices can be enrolled to the system bus irrespective of their type.

NOTE: It is not necessary to enroll the built-in proximity reader in keyboards LED 32, LCD 32 and LCD 32S. The wireless devices can be enrolled only to wireless expander module Eclipse WL, which already has been added to the system configuration.

5. Press ENTER button of the used for programming keyboard. The keyboard will confirm the end of the successful enrolment procedure with sound signal.

6. The new enrolled device is in normal operation mode and ready for further programming and configuration.

5.4. Deleting of a device from the system configuration

1. Enter engineer code (7777 by default).

2. Enter the address of the device you want to delete from the system configuration.

3. At the respective address press and hold the button "0" for 2-3 seconds – the LCD shows [Free] for the address, LED 16A VG/LED32 – LEDs from 1 to 16 are lighting on, LED 8/16A – button "0" lights on. A continuous sound signal is heard. Attention: Deleting the unique ID number with button "0" is permanent and you cannot reject the operation with CANCEL button! To enroll the device again follow the procedure described at items 5.2 and 5.3.

5.5. Deleting a device from the configuration of wireless expander Eclipse WL (via LCD keyboard)

1. Enter engineer code (by default 7777).

2. Choose the menu of Eclipse WL.

3. Use the arrows to enter the menu "6.WL Device" (address 8xx5) or "7.WL Remote" (address 8xx6) and press 🕑 button (ENTER).

4. Enter a number of a device or a remote key fob.

5. The device is described with a name and unique ID code.

6. Press continuously the "0" button until a confirmation sound from the keyboard is heard – the screen displays [Free] [______] for the number.

Note: When deleting a wireless device type PIR, MC, FD, FL or SR, which is currently connected to Eclipse WL, the device is resetting automatically and it is prepared for enrollment to a new system. However, if the wireless device is not currently connected to Eclipse WL (because of missing battery, lost communication with the expander or other reason), it is obligatory the installer to reset it manually before enrolment to a new system. When deleting a remote key, fob it is not resetting automatically and before new enrolment to a system the installer must reset it manually.

6. OPERATION WITH A SERVICE KEYBOARD

The service keyboard is a device, which is not a part of the system configuration, but can provide full access to all engineer programming menus. Every keyboard of Eclipse Series can be used as service, **when it is not enrolled at address** in the system configuration.

The service keyboard is not enrolled at a certain address and that is why its removing will not cause a system trouble for a lost device.

You can connect only one service keyboards to the system configuration at the same time.

The "Service keyboard" mode allows access only to the engineer programming menus and the Manager and User programming menus are not available. The system arming and disarming is also unavailable.

Every Eclipse Series keyboard can be service keyboard if it is not currently connected and enrolled to the system configuration.

The service keyboard can be connected to the control panel in two ways:

- Via specialized cable for connection of service keyboard to the interface connector Service KBD on the control panel PCB.

- To the system bus of the control panel.

The indication of a keyboard when used as service keyboard in the system, depends on its type:

Keyboard	LED	Indication
LED 8	*	Plinks fast in rod
LED 16A	34 6	Dilliks last in leu.
LED 16A VG		
LED32		Plinks in red and groon in turn
LCD 32	0	Blinks in red and green in turn.
LCD 32 Sensitive		

• Using a service keyboard cable

This is a specialized cable for quick connection of service keyboard to an Eclipse series control panel. The cable is factory prepared for connection to interface connector "Service KBD" on the panel's PCB from the one side and for connection to the keyboard terminals at the other – Figure 26.



• Using the system bus of the panel

To enter the "Service keyboard" mode with a new keyboard:

- Connect the keyboard to the system bus and wait the initial initialization to complete.
- Single press the PRG button ($^{\textcircled{O}}$).
- When you finish with the engineer programming, exit to the main screen.
- Power off the keyboard and disconnect it from the system bus.

To enter the "Service keyboard" mode with a present keyboard in the system configuration:

- Use one of the other keyboards in the system configuration to delete the unique ID number of the one selected for service keyboard enter the keyboard ID address 8xx0, where "xx" is the device number from 02 to 32 (01 is always the PCB of the control panel), and delete the ID number with pressing the "0" button for 2-3 seconds. It is not necessary to confirm with ENTER.
- Press the PRG (^(C)) button.
- When you finish with the engineer programming, exit to the main screen.



ATTENTION: If the engineer access is disabled from the manager programming menu the access will be denied and for the service keyboard!

• Adding of service keyboard to the system configuration

Every service keyboard, connected to the panel can be added to the system configuration and to be available for operation from users. Whether the service keyboard is connected to "Service KBD" connector or to the system bus of the panel, it can be added to the system configuration as follows:

- Enter the engineer programming menu using the service keyboard.
- Choose a free position for device enrollment (free address)
- Press in sequence the tamper-switch and the 📿 (ENTER) button of the service keyboard.
- After the initial initialization is complete the keyboard will ready for additional settings and user operation.

7. UPDATING THE FIRMWARE



Attention: Always use the last actual version of ProsTE Specialized Programming Software downloaded from the official web page of the manufacturer!

Actual files (SPF) for firmware update are available for download for registered and authorized users only from the official web page of the manufacturer: <u>http://www.teletek-electronics.com</u>

To do a firmware update of your ECLIPSE panel:

1. Download the last actual file for firmware update from the official web page of the manufacturer and save it to your local computer or laptop.

2. Connect the ECLIPSE panel to the computer – you can use the SERIAL connector with cable ProsTE kit; or a standard micro USB cable available for the following or higher hardware revisions: Eclipse 8 – HW 2.0,

Eclipse 8+ – HW 1.1, Eclipse 16 – HW 1.5, Eclipse 32 – HW 2.3, Eclipse 99 – HW 1.4.

3. Run the ProsTE software.

- 4. Choose ECLIPSE system, according the type of the panel.
- 5. Read and save the system configuration to your local computer as *. TDF file format.
- 6. Click with the right button of the mouse and choose from the option list "Firmware update" menu.
- 7. In the new dialogue window press the Browse button and select the SPF file from your local computer.
- 8. Press "Update" button in the dialogue window.

9. In the "Communication" dialogue window choose a COM port (to which the panel is physically connected) and press OK button for confirmation.

- 10. Wait the firmware update process to complete.
- 11. Press the Finish button in the dialogue window.
- 12. Perform a full hardware reset of the panel see item 3.2.

13. Update the language strings of the panel – start ProsTE at your language, choose "Eclipse Strings" and write them down to the panel.

14. Write down the saved earlier system configuration (*.TDF file).

8. APPENDIX – Quick Guide of the Engineer Programming Menus

Text Menu	Address Menu	Eclipse 8	Eclipse 16	Eclipse 8+
1. Maintenance				
1. View Log	0040	Revi	ew the memory log of the sys	stem.
2. Walk Test	0020	Perform test for operation of all devices in the system.		
3 PGM Test	0021	Perform test of the operation of the PGM outputs in the system		
4 Comm Test	0023	Perform test of the operation of the built-in digital communicator		
5 Software Revision	0098	Revie	w the software version of the	nanel
2 Settings	0000	The vie		
01 Ambush Code	0010	[Disable/Enable]	[Disable/Enable]	[Disable/Enable]
02 Chime	0010	[Disable/Enable]		
02. Chine 03. Trouble Sounds	0012		[Disable/Enable]	[Disable/Enable]
04. Conf. Timor	0013		Enter time in renge 010 1	
	0014	- Entor timo	in range 000 254 minutes.	ofoult: 020
06. Sound Temper	0015		[Disable/Enchlo]	
	0016			
08. Hardware reset	0030		[Disable/Enable]	
09. Part. Default	0031	Perform a reset to	or a selected menu. Conlim	
1. Settings	0031 [0]	Returns to default	parameters of all general set	tings in the system.
2. Codes	0031 [1]	Returns to def	ault parameters and access of	codes of Users.
3. Inputs	0031 [2]	Returns to default	parameters and operation of	Inputs and Zones.
4. Outputs	0031 [3]	Returns to defau	ult parameters and operation	of PGM outputs.
5. Partitions	0031 [4]	Returns to d	efault parameters and operat	tion of Areas.
7. Communication	0031 [6]	Returns to default para	ameters and operation of all c	communication devices.
8. Devices	0031 [8]	Deletes all devices conn	ected to the system bus, exc	ept the PCB of the panel.
10. Reset Manager	0032	Perform a reset of the	Manager code. Default: 0000	Confirm with 123456.
11. System Name	0050	Enter a unique name for t	the system. The menu is acco	essible via LCD keyboard.
12. Time	0051		Set the actual time.	
13. Date	0052		Set the actual date.	
14 Menu Style	0097	Select	the type of the programming	menus:
	0037	4-digit Add	resses [1], 3-digit operations	[2], Text [3]
15. Standard	0096	-	-	Grade 2
3. Codes				
1. Users	1XXY	Programming of user rig	hts and options; XX - user nu	mber; Y - option number.
XX. User	1XXY	XX: 01-08	XX: 01-32	XX: 01-32
1. Options	1XX0	1.Disarm/2.	Part. Arm/3.Zone Bypass/4.P	Programming
2. Areas	1XX1	-	1-3	1-3
3. Name	1XX2	Enter a unique name for	the User. The menu is acces	ssible via LCD keyboard.
4. Proxy Options	1XX3	1. Dis	arm/2+3.Proxy card arming c	options
6. RC*(A) Function	1XX5	-	0.Unused/1.Sleep Arm/2	2.Stay Arm/3.Fire Alarm/
7. RC(B) Function	1XX6	-	- 4.Medical Alarm/5.Police Alarm/6.PGM Switch	
2. Engineer				
1. ENG1 Code	0000	Change the Engineer of	code. Default: 7777. To chang	ge – press and hold "0".
4. Inputs		<u> </u>		
1. Wiring (Default: 2)	2000	Set connect	ion style 1-5.	Set connection style 1-9.
4. Pulse Count				
1. Pulses	2003	-	Number of activations 2	-9. Default: 0 (Disabled).
	000.4		Time for zones in puls	se count: 000-255 sec.
2. Time Out	2004	-	Default:	000 sec.
5. Zones	2XXY	Programming of zor	e options: XX - zone numbe	r: Y - option number.
XX. Zone	2XXY	XX: 01-08	XX: 01-16	XX: 01-16
1 Attach	2XX0	-	[DD] [TT] – DD: device nu	mber: TT: terminal number
	2/0/0	00 Unused/01 Fr	try-Exit/02 Follow/03 Instant	/04 Fire/05 Panic/
2. Type	2XX1	06 Tamper/07 Me	dical/08 Key-Switch/09 Auxili	ary/10 Entry-Exit 2
3 Areas	2882	-	1-3	
	2XX4	2 Bypass/3 Stay	Arm/A Sleep Arm/5 Force Arr	n/6 Double Knock
	2///4	3 Report Only/6 Chime/	3 Report Only/6 Chime/7	Pulse Count/8 Power Up
5. Options 2	2XX5	8.Power Up Delay Delay		lay
6. Key Switch	2XX6	1.Pulse-Latch/2-3.Key Switch Arming types (Disabled, Full, Stay, Sleep)/ 4.Disarm/5.Normal-Invert/6.Ignore Exit Time		led, Full, Stay, Sleep)/ xit Time
8. Name	2XX8	Enter a unique name for the Zone. The menu is accessible via LCD keyboard		ssible via LCD keyboard.
9. Line Resistance	2XX9	Menu for viewing the resistance of the line.		he line.
5. Outputs				
1. PGM Option (PGM 4)	3000	Serial Link	-	Serial Link
2. PGMs	3XXY	Programming of outp	uts options: XX - PGM numb	er; Y - option number.
XX. PGM	3XXY	XX: 1-5	XX: 1-8	XX: 1-8
1. Attach	3XX0	-	[DD] [PP] – DD: device n	umber: PP: PGM number*
	0///0			

Eclipse 8/8+/16/32/99 Series - Installation Manual

Text Menu	Address Menu	Eclipse 8	Eclipse 16	Eclipse 8+
2. Options	3XX1	1.Genera	I-Siren Output/2.Polarity Nor	mal-Invert
3. Areas	3XX2	-	1-3	1-3
4. Activation	3XX3	Set an activation event type, see the Programming manual for details.		
5. Act. Parameter 1	3XX4	Set Parameters 1 for activation event.		
6. Act. Parameter 2	3XX5	Set Parameters 2 for activation event.		
6. Partitions				
1. Account Length	4000		[4/6]	
2. Double Knock	4001		1-5 min. Default: 3 min	
5. Areas	4XXY	Programming of area	as options; XX - area numbe	r; Y - option number.
XX. Area	4XXY	XX: 01	XX: 01-03	XX: 01-03
01. Exit Time	4XX0	Enter exit t	ime duration 000-255 sec. D	efault: 045
02. Entry Time	4XX1	Enter the Entry time 1 and Entry time 2 duration 000-255 sec. Default: 015 Note: In Eclipse 8+ control panel the duration of entry times is limited up to 45 seconds, when the requirements of EN50131 for Grade 2 is applied – see menu 2. Settings \rightarrow 15. Standard (address 0096).		
03. Alarm Cycle	4XX2	Enter the duration of the A	Alarm cycle for siren outputs	000-255 sec. Default:001
04. Account	4XX3	Enter a 4/6-digit ac	count number for communica	ation. Default: FFFF
05. Bell Options	4XX4	1.Squawk on Arr	m/2.Squawk on Disarm/5. Fir	re alarm duration
06. ON/OFF Options	4XX5	3.Cle	ar Bypass on Disarm/4.Quicl	k Arm
07. Panics	4XX6	1. Enable Police Panic/2.Pc Panic/4.Medical Pan	blice Panic Sound type: Audil ic Sound type: Audible-Silen	ole-Silent/3. Enable Medical t/5.Enable Fire Panic
08. Name	4XX7	-	Enter a unique na The menu is accessib	ame for the Area. ble via LCD kevboard.
8. Communication				, · · · · ·
1. Digital Communication	60XX	Menus for settings of the	e built-in digital communicato	or of the system (PSTN).
	0000	1.Enable Dialer/2.TLM Ena	able/3.TLM Alarm/4.Pulse-To	one Dial/5.Tone-Blind Dial/
1. Options	6000	6.Alternative-All/7-8.	Report Channels: PSTN MA	IN-GPRS/LAN MAIN
2. Attempts	6001	Enter a numbe	er of communication attempts	3 1-9. Default: 4
3. Test Messages	-	Menus fo	r setting of options for test m	essages.
1. Time	6003	Enter the hour for transm	itting of the test message 00	:00-23:59. Default: 00:05
2. Period	6002	Enter the period between two test messages 000-255 hours. Default: 024		255 hours. Default: 024
4. Fault Delay	6004	Enter time delay is case of telephone line fault 000-255 min. Default: 000		-255 min. Default: 000
5. Phones	-	Menus for setting of phone numbers options.		
X. Phone	60XY	X:1-2; Y - Option		
1. Phone Number	60X0	Enter a telephone number for communication with central station.		
2. Protocol	60X1	Select the communication protocol CID/SIA. Default: CID		A. Default: CID
3. Messages	6073	1.Alarm&Restore/2.Tamper&Restore/3.Panic&Ambush Code/4.Fire/5.Arm, D		Code/4.Fire/5.Arm, Disarm,
Туре	0072	Bypass/6.Medical Alar	m/7.Trouble&Trouble Restor	e/8.Special Messages
4. Areas	60X3	-	1-3	1-3
6. UDL	-	Menus for remote up/o	download settings via built-in	digital communicator.
2. PC ID	6901	Enter a unique	PC identification number for	r up/download.
5. Options	6904	-	2.Answering Machin	e/3.Modem Enabled
6. Rings	6905	Enter the nu	mber of incoming rings 00-99	 Default: 04
2. Voice Dialer (VD)	61XX	Menus for s	ettings of the voice dialer cor	mmunicator.
1. VD Options	6100	00 1.VD Report Enable/2.VD Manage Enable/4.Skip Site Na		.Skip Site Name
2. VD Message Rep.	6101	6101 Enter the number of times for voice message repetition 1		etition 1-9. Default: 3
4. VD Language	6103	<u>[00]-EN;[01]-PT;[02]-IT;[03]-RO;[04]-GR;[05]-Farsi;[06]-FR;[07]-TR;[08]-R</u>		FR;[07]-TR;[08]-RS;[09]-ES
5. VD Phones	-	Menus for setting of Voice Dialer phone numbers options.		mbers options.
X. Phone	61XY	X:1-8; Y - Option		·
1. Phone Number	61X0	Enter a telephone	e number for communication	
3. Message Type	61X2	1.Alarm&Restore/2.Tamper&Restore/3.Panic&Ambush Code/4.Fire/5.Arm, L Bypass/6.Medical Alarm/7.Trouble&Trouble Restore/8.Special Message		code/4.Fire/5.Arm, Disarm, e/8.Special Messages
4. Areas	61X1	-	1-3	1-3
9. Devices				
01. Device [MAIN] - Menus for Main PCB options. The PCD is always the first device in the		first device in the system.		
1. ID	8010	Review the	identification number of the	Main PCB.
2. Areas	8011	-	1-3	1-3
4. Resources	8013	-	Review the hardware res	ources of the Main PCB.
XX. Device [LCD/LED/PRX]	8XXY	XX:02-03	XX:02-06	XX:02-06
1. ID	8XX0	Review the id	entification number of the LC	D Keyboard.
2. Areas	8XX1	-	1-3	<u> </u>
3. Options	8XX2	-	1.Chime/2.Hiding zone in Mode/4.Exit Confidentia	ntormation/3.Confidential al Mode/ 5.Main Screen
4. Resources	8XX3	-	Review the hardware r	esources of the device.
5 Comm Quality	8774		Review the strength of the	ne communication signal
	0774	-	between the device a	and the control panel.

Eclipse 8/8+/16/32/99 Series - Installation Manual

Text Menu	Address Menu	Eclipse 8	Eclipse 16	Eclipse 8+
7. ARM Mode A**	8XX7**	Set the arm type for every one of the areas (Modes A and B):		
8. ARM Mode B**	8XX8**	[d] - Disarm, press button "1"; [f] - Full Arm, press button "2"; [s] - Stay Arm, press button "3"; [S] - Sleep Arm, press button "4"; [*] - No action, press button "0".		
XX. Device [ZEXP]***		-	XX:02-06	
XX. Device [WEXP]***	0//1	- XX:02-06		2-06
6. WL Device**** [DD] 8XX5**** [DD]			Wireless devices enrolment. DD - device number.	
7. WL Remote**** [RR]	8XX6**** [RR]	-	Remote key fobs enrolment. RR - key fob number.	

Text Menu	Address Menu	Eclipse 32	Eclipse 99
1. Maintenance			
1. View Log	0040	Review the memory log of the system.	
2. Walk Test	0020	Perform test for operation of all devices in the system.	
3. PGM Test	0021	Perform test of the operation of the PGM outputs in the system.	
4. Comm. Test	0023	Perform test of the operation of	the built-in digital communicator.
5. Software Revision	0098	Review the software	version of the panel.
2. Settings			
01. Ambush Code	0010	[Disable/Enable]	[Disable/Enable]
02. KBD Block	0011	[Disable/Enable]	[Disable/Enable]
03. Trouble Sounds	0013	[Disable/Enable]	[Disable/Enable]
04. Conf. Timer	0014	Enter time in range 010-180 seconds. Default: 010	
05. AC Delay	0015	Enter time in range 000-2	254 minutes. Default: 030
06. Sound Tamper	0016	[Disable/Enable]	[Disable/Enable]
07. Alarm Delav	0017	[Disable/Enable]	[Disable/Enable]
08. Hardware reset	0030	[Disable/Enable]	[Disable/Enable]
09. Part. Default	0031	Perform a reset for a selected m	enu. Confirm with code 123456.
1. Settings	0031 [0]	Returns to default parameters of	all general settings in the system.
2. Codes	0031 [1]	Returns to default parameters	s and access codes of Users.
3. Inputs	0031 [2]	Returns to default parameters an	d operation of Inputs and Zones.
4 Outputs	0031 [3]	Returns to default parameters	and operation of PGM outputs
5 Partitions	0031 [4]	Returns to default paramet	ers and operation of Areas
6 Schedules	0031 [5]	Return to default	ts for Time Slots
7 Communication	0031 [6]	Returns to default parameters and on	veration of all communication devices
8 Devices	0031 [8]	Deletes all devices connected to the system bus, excent the PCB of the papel	
10 Reset Manager	0032	Perform a reset of the Manager code. Default: 0000 Confirm with 12345	
11 System Name	0052	Enter a unique name for the system. The monu is accessible via LCD keyboard	
	0050	Sot the actual time	
12. Time 12. Data	0052	Set the actual date	
13. Date	0032	Select the type of the programming menus:	
14. Menu Style 0097 Jedicit Addresses [1] 3-digit operations		ait operations [2] Text [3]	
15 Standard	9000	Grade 2	Grade 2/Grade 3
3 Codes	0030	Olade 2	
	1777	Programming of user rights and options	: XX - user number: X - option number
XX User	1771		
	1220	1 Disarm/2 Part Arm/3 Zone By	nass/4 Programming/8 Manager
	1770		1 16
2. Aleas	1772	Entor a unique name for the User. The	manu is accessible via LCD keybeard
3. Name	1772	Enter a unique name for the Oser. The menu is accessible via LCD keyboard	
5. Time Slot	1773	1. Disaiii/2+3.FT0Xy	
6 PC+(A) Eupetion	1774	0 Linuad/1 Sloop Arm/2 Stov Arm/2	Fire Alarm/A Medical Alarm/E Delice
7 PC(R) Function	1772	0.0110sed/1.5leep All1/2.5lay All1/5	CM Switch
2 Engineer	1770	Alami/0.1	
2. Engineer	0000	Change the Engineer and Default	7777 To shange pross and hold "0"
1. ENG1 Code	0000	Change the Engineer code. Default. 1111. To change – press and hold 0.	
2. ENG2 Code	1000	Set a Maintenance code.	
3. Code Lengin	1000	[4/6] – length of the access codes	
4. Code Cione	1001		
4. Inputs	2000	Sat connect	on otdo 1.0
	2000	Set connection style 1-9.	
2. Autobypass	2001	Disable/Enable]	
3. Instant (type Zones)	2002		
4. Pulse Count	20000	Number of a direction of	
	2003	Number of activations 2-9. Default: U (Disabled).	
2. Time Out	2004	I ime tor zones in puise count: 000-255 sec. Default: 000 sec.	
5. Zones 2XXY Programming of zone options; XX - zone number; Y - option num		- zone number; Y - option number.	
XX. Zone	2XXY	r XX: 01-32 XX: 01-99	
1. Attach	2XX0	DD] [TT] – DD: device number; TT: terminal number	

Eclipse 8/8+/16/32/99 Series - Installation Manual

Text Menu	Address Menu	Eclipse 32	Eclipse 99
	07774	00.Unused/01.Entry-Exit/02.Fol	low/03.Instant/04.Fire/05.Panic/
2. Type	2881	06.Tamper/07.Medical/08.Key-Switch/09.Auxiliary/10.Entry-Exit 2	
3. Areas	2XX2	1-8 1-16	
4. Options 1	2XX4	1.AutoBypass/2.Bypass/3.Stay Arm/ 4.Sleep Arm/5 Force Arm/6 Double Knock/7 Instant Exit/8 East (64ms)	
5. Options 2	2XX5	1.Bell Delay/2.Fire Delay/3.Report Only/4.Video on Armed/5.Write to log/	
		6.Chime/7.Pulse Cou	nt/8.Power Up Delay
6. Key Switch	2XX6	1.Pulse-Latch/2-3.Key Switch Armin 4.Disarm/5.Normal-Inv	yert/6.lgnore Exit Time
7. Auxiliary	2XX7	0.24h Burglary/1.AC Loss/2.Batt Low/3.W	ater Leakage/4.Gas Detector/5.GSM Link
8. Name	2XX8	Enter a unique name for the Zone. The	menu is accessible via LCD keyboard.
9. Line Resistance	2XX9	Menu for viewing the	resistance of the line.
6. Zone clone	2005	Copying zone option	is from one to more.
5. Outputs			
1. PGM Option (PGM 4)	3000	Fire Output	Fire Output
2. PGMs	3XXY	Programming of outputs options; XX	- PGM number; Y - option number.
XX. PGM	3XXY	XX: 1-32	XX: 1-99
1. Attach	3XX0	[DD] [PP] – DD: device nu	umber; PP: PGM number*
2. Options	3XX1	1.General-Siren Output/2.Polarity Norm	al-Invert/3.Delay sec-min/4.Pulsed Fire
3. Areas	3XX2	1-8	1-16
4 Activation	3XX3	Set an activation event type, see th	e Programming manual for details
5 Act Parameter 1	3XX4	Set Parameters 1 f	or activation event
6 Act Parameter 2	3XX5	Set Parameters 2 f	or activation event
7 Deact Timer	3XX7	Enter time 000-255 sec-min (depends or	the set unit in 2 Ontions-5) Default 000
8 Delay	3XX9	Enter time 000-255 sec-min (depends or	the set unit in 2 Options 3). Default:000
6. Partitions	57075	Enter time 000 200 300 min (depends of	
1 Account Length	4000	[4]	/61
2 Double Knock	4001	1-5 min Default: 3 min	
3 No Move on ARM	4002	Enter time 001-255 min. Default: 000 (the option is disabled)	
4 Postpone Delay Time	4002	Enter time 010-25	5 min_Default:010
5 Areas	4XXY	Programming of areas options: XX	- area number: Y - option number
XX Area	4XXY	XX: 01-08	XX [.] 01-16
01. Exit Time	4XX0	Enter exit time duration 000-255 sec. Default: 045	
		Enter the Entry time 1 and Entry time	2 duration 000-255 sec. Default: 015
02. Entry Time	4XX1	Note: In Eclipse 32/99 control panels the duration of entry times is limited up to 43 seconds, when the requirements of EN50131 for Grade 2 or Grade 3 are applied seconds are provided and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 2 or Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and the requirements of EN50131 for Grade 3 are applied and th	
03. Alarm Cvcle	4XX2	Enter the duration of the Alarm cycle for	siren outputs 000-255 sec. Default:001
04. Account	4XX3	Enter a 4/6-digit account number	for communication. Default: FFFF
		1.Squawk on Arm/2.Squawk on [Disarm/3.Alarm memory squawk/
05. Bell Options	4XX4	4. 10 min. warning/5	. Fire alarm duration
06. ON/OFF Options	4XX5	4.Quick Arm/5.Auto A	Arm on no movement
07. Panics	4XX6	1. Enable Police Panic/2.Police Panic Sound type:	and type: Audible-Silent/3. Enable Medical
08 Name	4XX7	Enter a unique name for the Area. The	menu is accessible via LCD keyboard
09 Bell Delay	4XX8	Enter time 000-25	5 sec. Default: 000
10 Time Slot	4XX9	01-08	01-16
7 Schedules	170700	01 00	0110
1 Timeslots	5XXY	Programming of Timeslots: XX	- timeslot number: Y - option
XX Timeslot	5XXY	XX: 01-08	XX: 01-16
1 Start	5XX0	Enter start time	for the timeslot
2 End	5XX1	Enter and time for the timeslot.	
3 Week days	5XX2	Select the active days for timeslot	
4 Ontions	5XX3	1 Holidays/2 Invert	
2. Calendar	-	Calendar Settings	
	5 41 1-5 41 4		
02. February	5 42 1-5 42 4	<u>1</u>	
		Cubmonuo for individual potting for success day of the upper	
10. October	5 50 1-5 50 4	5504 Submenus for individual setting for every day of the year.	
11. November	5 51 1-5 51 4	14	
12. December	5 52 1-5 52 4	5 52 4	
8. Communication			
1. Digital Communication	60XX	Menus for settings of the built-in digita	I communicator of the system (PSTN).
1. Options	6000	1.Enable Dialer/2.TLM Enable/3.TLM Ala	arm/4.Pulse-Tone Dial/5.Tone-Blind Dial/

Text Menu	Address Menu	Eclipse 32	Eclipse 99
		6.Alternative-All/7-8.Report Chann	els: PSTN MAIN-GPRS/LAN MAIN
2. Attempts	6001	Enter a number of communication attempts 1-9. Default: 4	
3. Test Messages	-	Menus for setting of options for test messages.	
1. Time	6003	Enter the hour for transmitting of the test message 00:00-23:59. Default: 00:05	
2. Period	6002	Enter the period between two test me	essages 000-255 hours. Default: 024
4. Fault Delay	6004	Enter time delay is case of telephone	e line fault 000-255 min. Default: 000
5. Phones	-	Menus for setting of pl	hone numbers options.
X. Phone	60XY	X:1-4; Y	- Option
1. Phone Number	60X0	Enter a telephone number for co	mmunication with central station.
2. Protocol	60X1	Select the communication pr	rotocol CID/SIA. Default: CID
3. Messages Type	60X2	1.Alarm&Restore/2.Tamper&Restore/3.Pa Bypass/6.Medical Alarm/7.Trouble&	anic&Ambush Code/4.Fire/5.Arm, Disarm, Trouble Restore/8.Special Messages
4. Areas	60X3	1-8	1-16
6. UDL	-	Menus for remote up/download setti	ngs via built-in digital communicator.
2. PC ID	6901	Enter a unique PC identificat	tion number for up/download.
5. Options	6904	2.Answering Machin	e/3.Modem Enabled
6. Rings	6905	Enter the number of incom	ing rings 00-99. Default: 04
2. Voice Dialer (VD)	61XX	Menus for settings of the v	voice dialer communicator.
1. VD Options	6100	1.VD Report Enable/2.VD Mar	nage Enable/4.Skip Site Name
2. VD Message Rep.	6101	Enter the number of times for voice message repetition 1-9. Default: 3	
4. VD Language	6103	[00]-EN;[01]-PT;[02]-IT;[03]-RO;[04]-GR;[05]-Farsi;[06]-FR;[07]-TR;[08]-RS;[09]-E	
5. VD Phones	-	Menus for setting of Voice Dialer phone numbers options.	
X. Phone	61XY	X:1-8; Y - Option	
1. Phone Number	61X0	Enter a telephone number for communication via Voice Dialer.	
3. Message Type	61X2	1.Alarm&Restore/2.Tamper&Restore/3.Panic&Ambush Code/4.Fire/5.Arm, Disarm, Bypass/6.Medical Alarm/7.Trouble&Trouble Restore/8.Special Messages	
4. Areas	61X1	1-8	1-16
9. Devices			
01. Device [MAIN]	-	Menus for Main PCB options. The PCD	is always the first device in the system.
1. ID	8010	Review the identification	number of the Main PCB.
2. Areas	8011	1-8	1-16
4. Resources	8013	Review the hardware res	sources of the Main PCB.
XX. Device [LCD/LED/PRX]	8XXY	XX:02-32	XX:02-99
1. ID	8XX0	Review the identification nu	mber of the LCD Keyboard.
2. Areas	8XX1	1-8	1-16
3. Options	8XX2	1.Chime/2.Hiding zone information/3.Co 5.Main	nfidential Mode/4.Exit Confidential Mode/ Screen
4. Resources	8XX3	Review the hardware r	esources of the device.
5. Comm Quality	8XX4	Review the strength of the communication signal between the device and the control panel.	
6. LED Relocation	8XX5	- Set the 1 st zone	
7. ARM Mode A**	8XX7**	Set the arm type for every one of the areas (Modes A and B):	
8. ARM Mode B**	8XX8**	[d] - Disarm, press button "1"; [f] - Full Arm, press button "2"; [s] - Stay Arm, press button "3"; [S] - Sleep Arm, press button "4"; [*] - No action, press button "0".	
XX. Device [ZEXP]***			
XX. Device [PEXP]***	8XXY***	XX:02-32	XX:02-99
XX. Device [WEXP]***			
6. WL Device**** [DD]	8XX5**** [DD]	Menu for wireless devices enrolment. DD - device number.	
7. WL Remote**** [RR]	8XX6**** [RR]	Menu for remote key fobs enrolment. RR - key fob number.	



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