

Eclipse 8+

- 8 Zones (on board) – expandable to 16
- 3 Areas
- Wired/Wireless zone expanders support

DESCRIPTION

Eclipse 8+ is an intruder alarm control panel with 8 zone inputs, expandable to 16 via wired/wireless zone expanders or via zone doubling. The panel is intended for security of small residential, commercial or office premises. The control management of the panel is available via keyboard or proximity card reader. Full programming is done via keyboard or directly with ProsTE software. The installer can choose between 3 alternative types of programing - by addresses, by operations or tree structure menus. The panel has a built-in digital communicator and is compatible with wide range of detectors, communication modules, control devices and software for operation and programming. Eclipse 8+ panel complies with EN50131 GRADE 2, Class I.

FEATURES

- 3 Areas
- 8 Zones (on board) – expandable to 16
- Zone doubling
- 5 PGMs (on board) – up to 8 in total
- Hybrid solution – up to 4 Eclipse WL support
- Wired zone expander support
- 5 BUS devices
- 32 User Codes or Proxy Cards
- Built-in Digital Communicator (PSTN)
- Serial connection with TTE LAN and TTE GPRS modules
- Software support: ProsTE, AjaxWEB, MobileTTE, Guard View, Observer
- Complies with Grade 2 certificate

TECHNICAL SPECIFICATIONS

- Mains Power Supply.....230 VAC $\pm 10\%$, fuse 0.63A
- Mains Transformer.....17 VAC/17 VA
- Back-up Power Supply..... Accumulator 12 V/7 Ah
- Battery discharge protection.....Yes
- Consumption of the control panel..... 100 mA
- Connecting Wires..... 2.5mm²
- Enclosure..... ABS plastic box, White
- Dimensions..... 290 x 240 x 80 mm
- Working Temperature Range.....from -10°C to +60°C
- Storage Temperature Range..... from -20°C to+60°C

COMPATIBLE PRODUCT RANGE

- Eclipse Zone 8/Eclipse WL – zone expanders
- MDU Kit; MDU V - remote control modules
- LED 8/16A/32, LCD 32/32S - keypads
- TTE GPRS Simple/Standard - GPRS communication modules
- TTE LAN – universal communication module
- SensoMAG INTR - fire detectors
- GBD10, GBD20 - glass break detectors
- ProsTe - programming software
- SR200; SR300 - outdoor sirens
- SR105; SR110– indoor sirens
- TITAN series - PIR detectors

Last update: 12.2020

Eclipse 8+

SYSTEM ADVANTAGES

ECLIPSE 8+

Zones on board	8 (16 with doubling)
Max. Zones	16
Max. PGM Outputs	8 (5 on board)
Areas	3
Zone doubling	Yes
Hybrid option	Yes
Zone 8 expander module	Yes
PGM 8 expander module	No
WL - Wireless expander module	Yes – up to 4
• Number of wireless zones (PIR,MC,SR,FD,FL)	16
• Number of wireless sirens	3
• Number of wireless remote controls	32
User codes	32
Plastic box	Small
Time attendance	No
BUS devices	5 max
Certified and Approved to:	GRADE 2, class I

Eclipse LED 16A

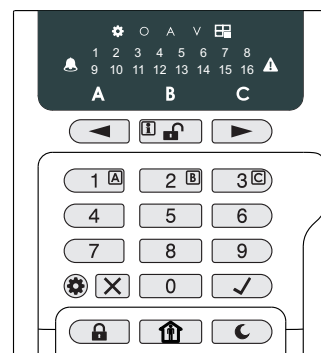
LED Keypad

Description

LED 16A is a keypad with LED indication of zones, system troubles, alarm messages and arming type. It is part of the ECLIPSE series alarm systems. The keyboard provides 1 input zone. LED 16 is suitable for programming and management of systems up to 3 independent areas and up to 16 zones.

Technical Specifications

Power Supply from the control panel	9-18V (nom. 14V)
Consumption	Min. 50mA / Max. 80mA
Area Indication	3
Zone Indication	16
Panic buttons	Yes
Buttons	Rubber
Operation temperature	-20 ÷ +50°C
Tamper	Yes
Dimensions	100x90x24mm



Functional Specifications

- Shortcut buttons to additional menus – Memory, Troubles display and Bypassed zones;
- Quick buttons for all arming modes;
- 3 fast buttons' combination for sending of PANIC, MEDICAL and FIRE alarm messages to a central monitoring station;
- The system parameters can be fully programmed;
- Supports 2 programming types: 4-digit addresses and 3-digit operations;
- Adjustable intensity of backlight for the display and buttons;
- Adjustable sound volume of the internal buzzer.

Packing Information

- **Master box** - 80 units LED 16A, dimensions 496 x 305 x 206 mm

Compatible Product Range

- **Eclipse 8** - Alarm Control Panel
- **Eclipse 16** - Alarm Control Panel
- **Eclipse 32** - Alarm Control Panel

Contact Information



TITAN DL

Digital PIR Detector

GRADE2 EN50131

Description

TITAN DL is a digital PIR detector suitable for use in residential, commercial and office buildings, as well as for application in buildings with higher security needs like banks offices, storage houses etc. TITAN DL uses a digital process algorithm and possesses pet immunity for animals up to 20 kg. The detector is also equipped with digital bi-directional temperature compensation. Titan Series detectors have 5 year warranty. As an option the detector can come with bracket for wall or ceiling mounting.



Technical and Environmental Specifications

Operating Range from 1.5 to 15m
Coverage Area. 90°
Detection Zones 54
Standard Mounting Height . . 1.5m - 3.6m (recommended 2.1m)
White Light Immunity 4000 lux
Electrostatic Immunity 8 kV
RF Immunity 10V/m@80MHz-2GHz
Pet Immunity animals up to 20 kg (selectable)
Walk Detection Speed 0,2m/s - 3,5m/s
Operating Temperature. from -20 up to 50°C
Power Supply +9 V DC to +18 V DC
Current Consumption. <14 mA
Weight ~ 74g
Dimensions. 62 x 97 x 50mm

Packing Information

• **Master box** - 100 units TITAN DL, dimensions 542 x 334 x 286 mm

Compatible Product Range

- **Bracket for wall mounting**
- **CA62** - alarm control panel
- **VEGA6/ VEGA6 RF** - alarm control panels
- **ECLIPSE series** - alarm control panels

Contact Information

Bracket



Bracket

Bracket for TITAN series motion detectors.

Functional features

- Suitable for wall or ceiling mounting

SR50

- Powerful Sound
- Designed for indoor use only
- Compact size



DESCRIPTION:

SR50 is an alarm siren with flash and has one input for connection to an intruder alarm panel. SR50 is designed for indoor use only. The siren has a compact size and it is suitable for installation on plain surfaces. The mounting is easy without need of disassembling any parts of the sirens’s body. The fixing is done with a single screw.

FEATURES

- No programming
- Easy installation
- Single Tone
- Powerful sound
- Plenty room for cabling
- Simple and compact design

TECHNICAL SPECIFICATIONS

- Operating Voltage Range.....9-14VDC
- Maximal consumption.....90mA @ 12VDC
- Maximal sound volume.....102dB @ 1m
- Frequency range.....2.7-4kHz
- Frequency of the strobe flashing.....2Hz/0.6W
- Type of tone.....Monotone
- Color LEDs.....Blue
- Material/Color.....ABS/white
- Dimensions.....94x45x69mm

COMPATIBLE PRODUCT RANGE

ECLIPSE 8/8+/16/32/99 - Control panels
ECLIPSE Series

Last update: 03.2021



TTE LAN

Universal LAN Communication Module

Description

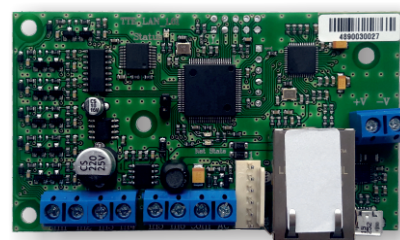
TTE LAN is an universal communication module. It is used for connection to intruder or fire alarm panels or as a stand-alone device. The device is connected to Eclipse series intruder control panels via serial communication or with third party panels via its 6 inputs. TTE LAN is used to send alarm messages to monitoring center or end-user. The module is mounted in small plastic box suitable for wall mounting.

TTE LAN can also be used for remote management, programming and monitoring of the security system together with Eclipse panel and the AJAX SP PRO software application.

The module is suitable for realizing of home automation applications.

Technical Specifications

- Power supply 9-30 V DC
- Current Consumption 300 mA
- Programmable inputs/outputs 6, 100 mA, OC type
- Input filtration time 0.5 sec
- Input for AC monitoring 9-35 V AC
- Encryption AES 128 bits
- Ethernet port 10/100Mbps



Functional Specifications

- Indication for the network status and trouble with the connection to the control panel;
- Internet remote programming and control through AJAX SP PRO/MobileTTE (iOS/Android) application;
- Micro USB port for configuration with ProSTE software;
- Serial communication with ECLIPSE series control panels;
- 6 programmable inputs/outputs, OC type (up to 100mA each);
- Main and Backup IP for connection with AJAX SP PRO;
- Automatic (DHCP) or manual settings for network connection;
- Suitable for home automation;
- Control panel communication supervision.

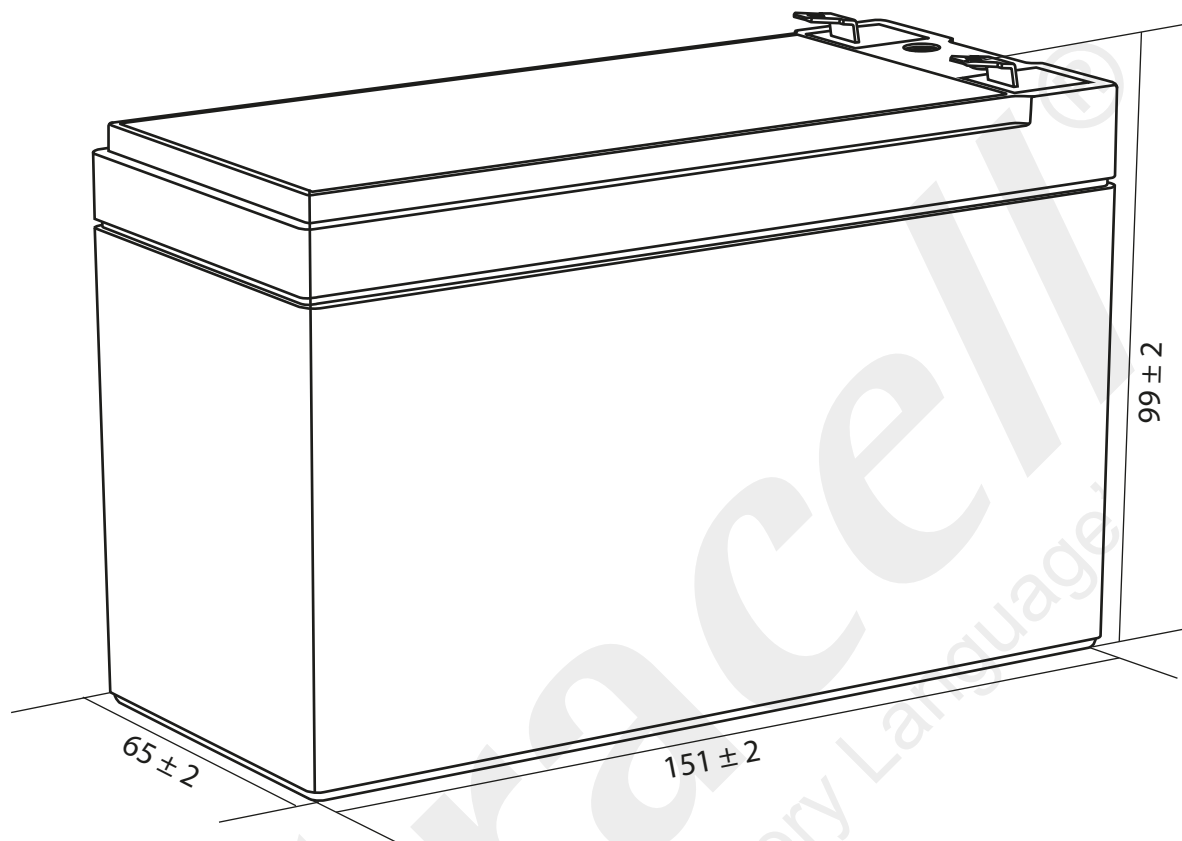
Packing Information

- **Single packing box** - 1 unit TTE LAN (PCB), dimensions 93 x 72 x 23 mm
- **Master box** - 150 units TTE LAN, dimensions 500 x 367 x 230 mm

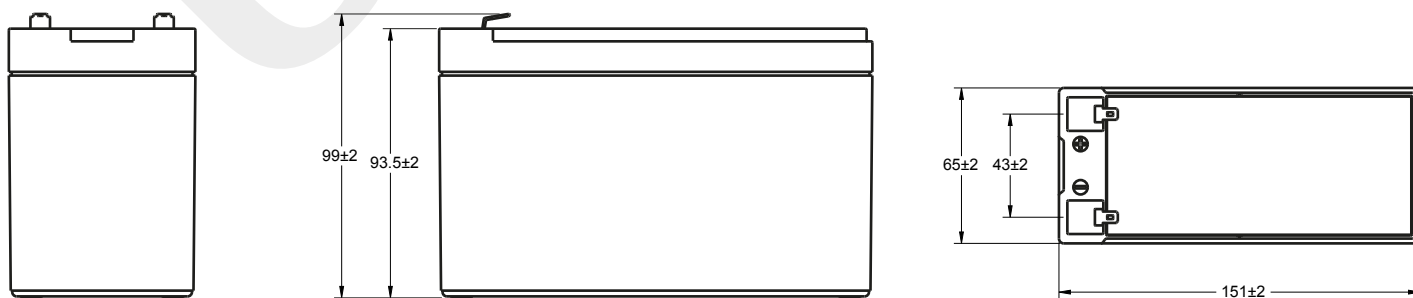
Compatible Product Range

- **Eclipse series** - Alarm control panels 8/ 16/ 32/ 99 zones
- **SB-U** - small universal box
- **Third party intruder alarm systems**

Contact Information



Technical Dimensions (mm)

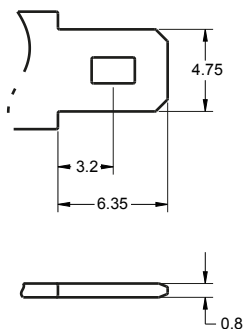


Image

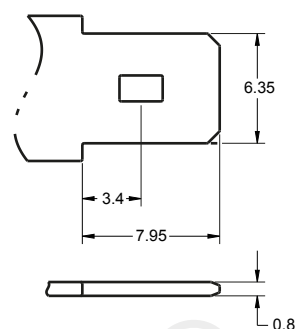


Terminal Dimensions (mm)

Standard
Terminal: F1



Optional
Terminal: F2



Technical Specification

Output	Nominal Voltage	12V
	Nominal Capacity (20HR)	7Ah
Terminal Type	Standard Terminal	F1
	Optional Terminal	F2
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(20HR 1.80V/cell, 25°C)	7 Ah/0.350A
	(10HR 1.80V/cell, 25°C)	6.53 Ah/0.653A
	(5HR 1.75V/cell, 25°C)	5.80 Ah/1.16A
	(3HR 1.75V/cell, 25°C)	5.13 Ah/1.71A
	(1HR 1.60V/cell, 25°C)	4.26 Ah/4.26A
Max Discharge Current	105A (5s)	
Internal Resistance	Approx 23mΩ	
Discharge Characteristics	Operating Temp Range	Discharge: -15 ~ 50°C
		Charge: 0 ~ 40°C
		Storage: -15 ~ 40°C
	Nominal Operating Temp Range	25 ± 3°C
	Cycle Use	Initial Charging Current less than 2.1A. Voltage 14.4V ~ 15.0V @ 25°C Temp. Coefficient -30mV/°C
	Standby Use	No limit on initial charging current. Voltage 13.5V ~ 13.8V @ 25°C Temp. Coefficient -20mV/°C
Capacity affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
Design Floating Life at 20°C	5 Years	

Self Discharge

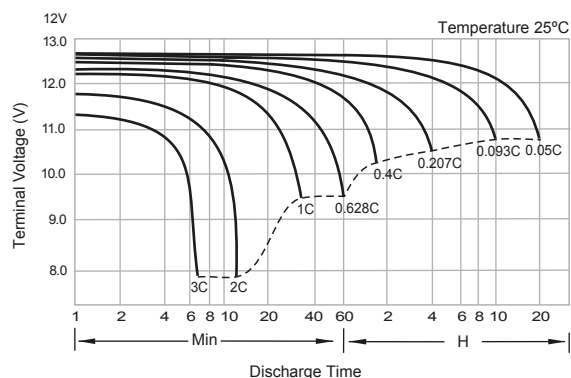
Ultracell® UL batteries may be stored for up to 6 months at 25°C and then a refresh charge is required. For higher temperatures the time intervals will be shorter.

Constant Current Discharge / Constant Power Discharge At 25°C (Amperes & Watts/Cell)

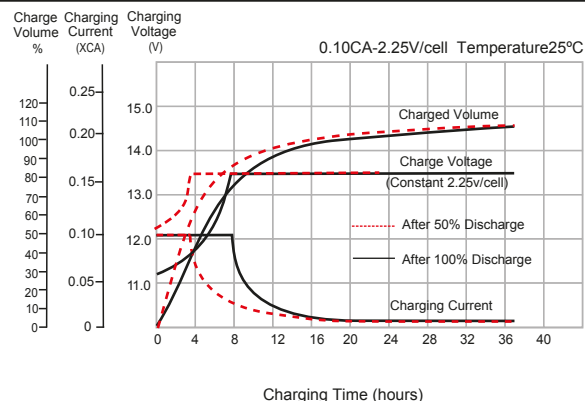
A = Amperes W = Watts

F.V/TIME	5	10	15	20	30	45	60	2	3	4	5	6	8	10	20
A	min	min	min	min	min	min	min	hours	hours	hours	hours	hours	hours	hours	hours
1.85V/cell	16.0	11.7	9.97	8.46	6.17	4.52	3.60	2.14	1.60	1.30	1.10	0.95	0.756	0.626	0.343
	30.3	22.3	19.2	16.4	12.0	8.86	7.09	4.23	3.17	2.59	2.20	1.91	1.52	1.26	0.694
1.80V/cell	19.2	13.7	11.3	9.20	6.65	4.80	3.83	2.24	1.66	1.35	1.14	0.99	0.783	0.653	0.350
	35.9	25.8	21.5	17.7	12.9	9.37	7.52	4.42	3.30	2.69	2.27	1.97	1.57	1.31	0.704
1.75V/cell	21.5	14.9	12.0	9.70	6.92	4.99	3.98	2.31	1.71	1.38	1.16	1.01	0.795	0.663	0.357
	39.8	28.0	22.8	18.6	13.4	9.72	7.79	4.55	3.37	2.74	2.31	2.00	1.59	1.33	0.716
1.70V/cell	23.4	15.9	12.8	10.2	7.18	5.12	4.05	2.36	1.75	1.41	1.19	1.03	0.812	0.672	0.361
	42.8	29.5	24.0	19.3	13.8	9.89	7.88	4.61	3.42	2.78	2.34	2.03	1.61	1.33	0.718
1.65V/cell	25.5	16.8	13.4	10.6	7.43	5.28	4.17	2.40	1.77	1.43	1.21	1.04	0.823	0.680	0.365
	45.7	30.7	24.8	19.8	14.1	10.1	8.02	4.65	3.45	2.80	2.36	2.05	1.62	1.34	0.720
1.60V/cell	26.8	17.6	13.8	10.9	7.64	5.42	4.26	2.46	1.81	1.46	1.23	1.06	0.837	0.690	0.371
	47.0	31.5	25.1	20.1	14.3	10.3	8.13	4.73	3.50	2.83	2.39	2.07	1.63	1.35	0.728

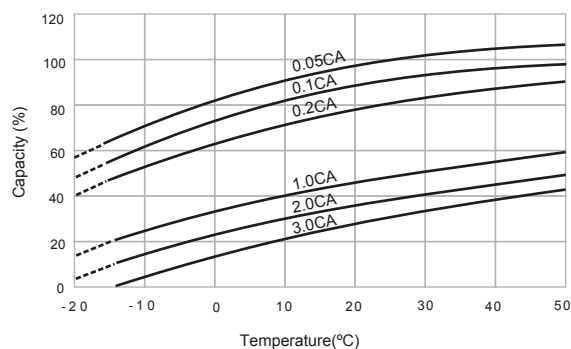
Discharge Characteristics



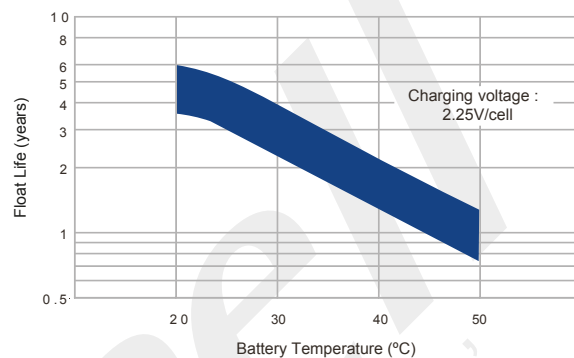
Float Charging Characteristics



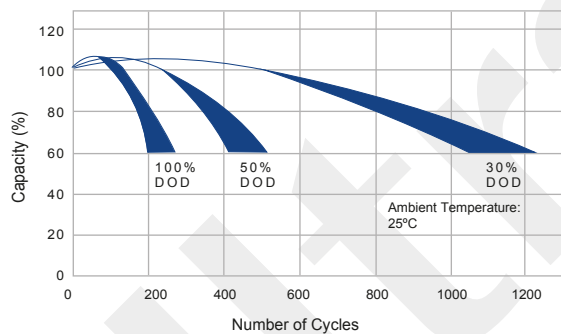
Temperature Effects in Relation to Battery Capacity



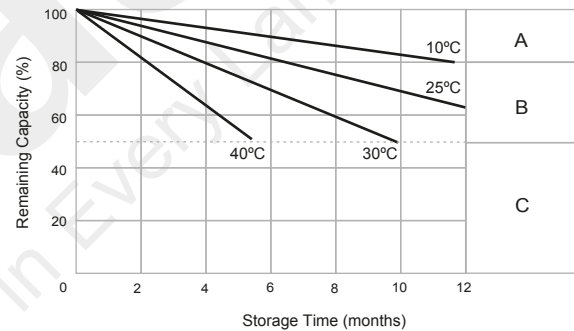
Effects of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity vs. Storage Time



General Relation of Capacity vs. Storage Time (Notes)

- A) No supplementary charge required.
(Carryout supplementary charge before use if 100% capacity is required.)
- B) Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.25V/cell.
 3. Charged for 8 ~ 10 hours at limited current 0.05 CA.
- C) Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.