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Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid. Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

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BS-465 PSTN TELEPHONE DIALER CARD FOR BS-468 PANELS



TECHNICAL CHARACTERISTICS

OPERATION VOLTAGE	Powered by the BS-468 panel
CONSUMPTION	20mA quiescent. 50mA during a call
INPUTS	2 telephone line inputs PSTN (LINE, TELEPHONE)
CALL MODE	Tone DTMF
PRODUCED IN ACCORDANCE WITH	EN 50136-1-1, EN 60950-1, TBR-21
OPERATION TEMPERATURE RANGE	0 to 60 °C
RELATIVE HUMIDITY	Up to 95%
EXTERNAL DIMENSIONS	121 x 61 x 18 mm
WEIGHT	50gr.
GUARANTEE	2 years

Thank you for your trust in our products.
Olympia Electronics - European manufacturer.

GENERAL

The BS-465 (figure1) is a module that can be fitted only on the main board of the BS-468 burglar alarm panel from Olympia Electronics. It can send calls to selected telephone numbers. These telephone numbers are stored in the BS-468 panel's memory and do not erase in the event of a power failure but can be changed by the user for as many times as required.



Figure 1 : View of the BS-465 circuit board .

INSTALLATION

The installer must install the BS-465 PSTN module on the BS-468 panel, when the panel is not powered by either the mains power supply or the battery (Figure 2).

The BS-465 PSTN module has 2 **RJ11** connectors used for connecting the telephone line and a telephone handset.

The **LINE** input is used to connect the telephone line cable. (Figure 3)

The **TELEPHONE** input is used to connect any other telephone device that we require.



Figure 2 : Installing a BS-465 on the BS-468 panel

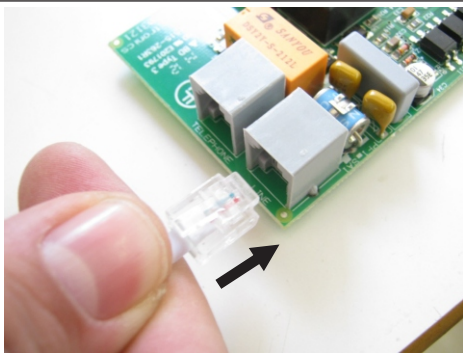


Figure 3 : "Connecting the telephone line".

answered there is a beep sound and the message concerning the state of the system is played for 3 times.

If, for example the system is disarmed and there is a fault then the message "FAULT, DISARMED" will be heard for 3 times whereas if there is an alarm and the system is armed the message "ALARM, ARMED" will be heard for 3 times. At the end of the message a beep will be heard and after 5 seconds the line will be closed. If during the message period any key apart from the "#" key is pressed, on the receiving telephone, then 3 beeps are heard and the line is closed without any other action. If the "#" key is pressed then 2 beeps are heard, the line is closed and the PSTN dialer does not dial any other numbers since one number has already been informed. This is done to prevent disturbing the other numbers.

ALARM RECEIVING CENTER (Contact ID)

The BS-465 can communicate with an alarm receiving center (ARC). The communication protocol is Contact ID (CID). Via the CID the ARC is informed for every event that takes place on the panel.

To communicate with the ARC, the technician must enter 2 elements:

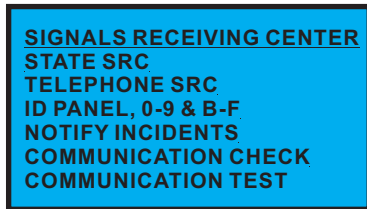
- 1) The telephone of the ARC center.
- 2) The panel ID.

Please note that the panel ID is unique for each installation.

These elements are provided by the ARC support company.

These elements are entered with the help of the BS-466 keyboard.

Specifically on BS-466 keypad we have to enter the technical menu, next the PSTN menu and finally choose SIGNALS RECEIVING CENTER. In the picture below we can see all the available options.



STATE SRC

In that option we can activate/deactivate sending signals to the SRC (Signals Receiving Center).

CAPABILITIES

It can be set to send calls upon all events or to selected events (i.e alarm, fault e.t.c) or in combination of events (i.e. During an alarm and fault). The programming can be done via a BS-466 keyboard or computer.

There is the capability to test the availability of the telephone line. This selection must be disabled if the telephone line is used by others telephone devices because it will issue telephone line faults.

INCOMING CALLS

Regarding calls toward the PSTN module it is required to enter one of the 2 codes (user or technician) in order to retrieve the status of the system. If an action is required (system arming) e.t.c) then an additional code is also required. When a call is placed to the GSM and the GSM module picks up the line is will issue one beep. After the beep is heard we must enter the user or technician code using our handset keyboard. If the code is wrong then 3 beeps are heard and the line is terminated. If the code is correct then the system status message is replayed 3 times. When the messages finish, a beep is heard and the GSM waits for another code entry. Now we can enter the user code, the technician code or one of the 50 general purpose codes. If the code is wrong then 3 beeps are heard and the line is terminated. If the code is correct then the action (depending on the code) is executed, 2 beeps are heard and the new system status message will be replayed 3 times after which the line will be terminated.

OUTGOING CALLS

During an outgoing call, when the call is

TELEPHONE SRC

In this option we can enter the telephone number of the SRC center.

- 1627/ - Technician menu entry
- 1628/ - Exit from technician menu

ID PANEL

Entering this menu we insert the four digit password of our panel for the SRC. This code is unique for each panel.

If the source of the event is :

- 001 .. 024 – Zone 01 .. 24
- 100 – Panel
- 101 – Battery
- 102 – PC
- 103 – GSM
- 104 – PSTN
- 105 – Remote controller

NOTIFY INCIDENTS

We can choose which incidents the SRC will send to us.

COMMUNICATION CHECK

The panel has the capability of sending a test signal to the ARC in order to report to it the good operation.

The send period for the test signal can be selected as follows:

- every 4 hours
- every 8 hours
- every 24 hours

There is also an option to disable the test signal.

- 111 .. 116 – Outputs
 - 132 .. 135– Expansion 02 .. 05
 - 142 .. 149 – Keyboard 02 .. 09
 - 151 .. 160 - Timers 01 .. 10
 - 200 – Main user code
 - 201 – Technician code
 - 202 .. 252 – User code 01 .. 50
- Whereas the sections are referred to as:

- 00 - Panel
- 01 - Section A
- 02 - Section B
- 03 - Section C

COMMUNICATION TEST

After entering these elements we can conduct a communication test using the BS-466 keyboard.

After a few seconds we are informed if the communication test was successful or not.

CID SIGNALS

The BS-468 panel sends the following signal to the ARC with there respective codes:

- 1110/3110 - Fire
- 1120/3120 - Panic
- 1122/3122 - Silent Alarm
- 1130/3130 - Alarm
- 1137/3137 - Tamper alarm
- 1300/3300 - Fault
- 1301/3301 - AC power fault
- 1302/3302 - Battery fault
- 1303/3303 - RAM memory fault
- 1330/3330 - Peripheral device fault
- 1401/3401- Disarm /Arm
- 1406 - Cancel alarm
- 1461/ - Wrong code entry
- 1601/ - Communication check