

ACX-200

HARDWIRED ZONE / OUTPUT EXPANDER

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The expander enables hardwired devices (detectors, sirens, etc.) to be used in a wireless system. The expander is designed for use as part of the ABAX two-way wireless system. It is supported by:

- ACU-100 (firmware version 1.05 or newer) / ACU-250 / ACU-120 / ACU-270 controller,
- ARU-100 repeater,
- INTEGRA 128-WRL control panel.

The expander occupies 4 positions on the list of supported wireless devices.

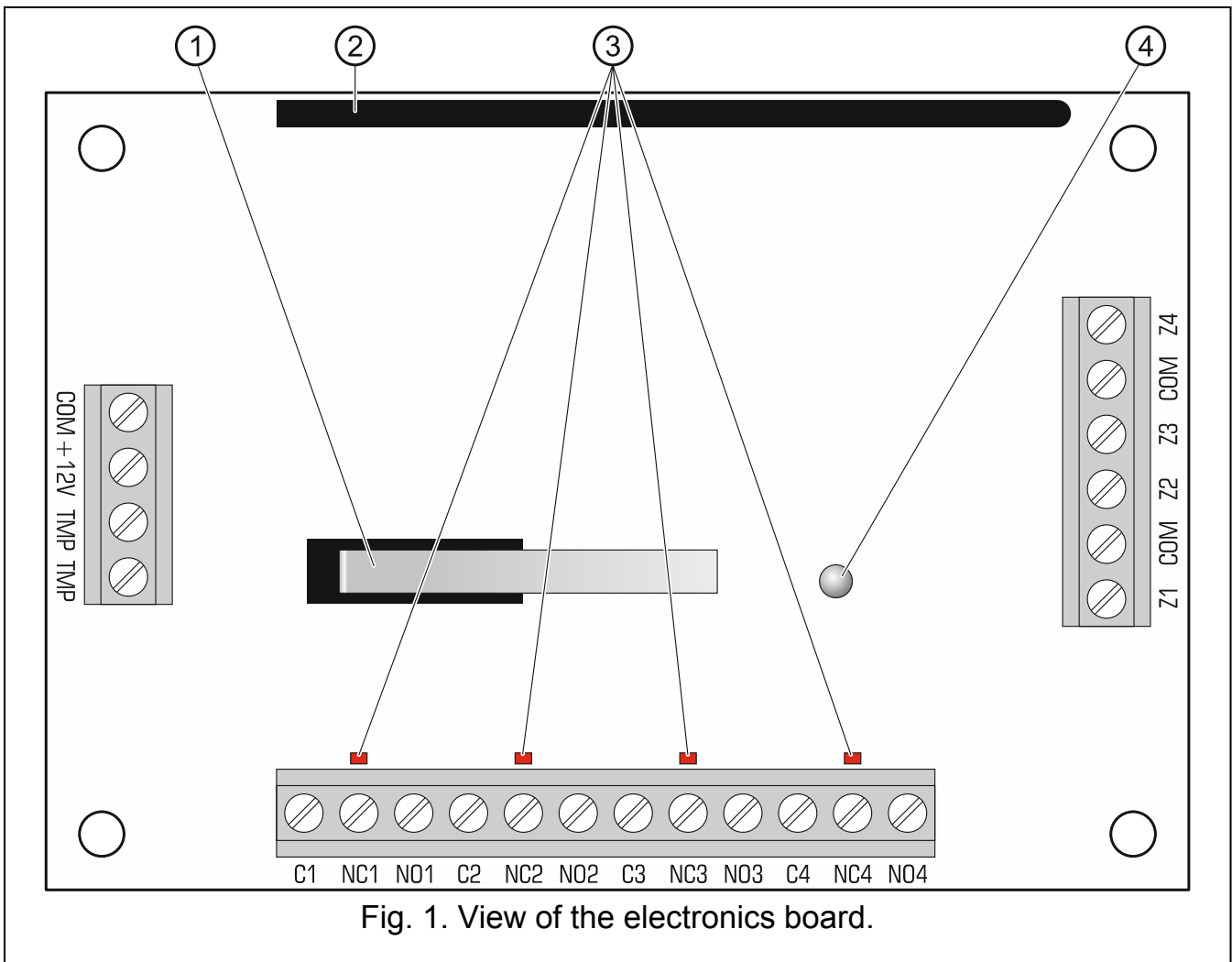
1. Features

- 4 programmable hardwired zones:
 - support for NO and NC type detectors,
 - support for Single EOL and Double EOL configuration.
- 4 programmable hardwired outputs (relay).
- Remote configuration.
- Tamper protection against cover removal.

2. Specifications

Operating frequency band	868,0 MHz ÷ 868,6 MHz
Radio communication range (in open area)	up to 500 m
Supply voltage	12 V DC ±15%
Standby current consumption	130 mA
Maximum current consumption	140 mA
Relay contacts rating (resistive load).....	1000 mA / 24 VDC
Security grade according to EN50131-3.....	Grade 2
Complied with standards	EN 50130-4, EN 50130-5, EN 50131-1, EN 50131-3, EN 50131-5-3
Environmental class according to EN50130-5.....	II
Operating temperature range	-10 °C...+55 °C
Maximum humidity	93±3%
Dimensions	126 x 158 x 32 mm
Weight.....	223 g
Name of certification body	Telefication

3. Electronics board



Explanations to Fig. 1:

- ① tamper switch.
- ② antenna.
- ③ LEDs indicating the status of the relay outputs:
OFF – output inactive,
ON – output active.
- ④ two-color LED status indicator:
 - OFF – power off,
 - lights in green – power on,
 - red flash – polling in progress.

Description of terminals:

- COM** - common ground.
- +12V** - power input.
- TMP** - tamper output (NC).
- C1...C4** - relay output common contact.
- NC1...NC8** - relay output normally closed contact.

NO1...NO8 - relay output normally open contact.

Z1...Z4 - zone.

4. Installation



Disconnect power before making any electrical connections.

The device is designed for indoor installation. It is recommended that the expander be mounted high above the floor. This will allow you to get a better range of radio communication and avoid the risk of the expander being accidentally covered by people moving around the premises.

1. Loosen the cover locking screws and remove the enclosure cover.
2. Connect the temporary 12 V DC power supply to the expander and add the device to the wireless system (see the ACU-100 / ACU-250 / ACU-120 / ACU-270 controller manual or the INTEGRA 128-WRL / VERSA / VERSA Plus control panel installer manual). The sticker with 7-digit serial number which shall be entered when registering the expander in the system can be found on the electronics board.
3. Fasten the expander temporarily at the place of its future installation.
4. Check the level of signal received from the expander by the ACU-100 / ACU-250 / ACU-120 / ACU-270 controller or the INTEGRA 128-WRL control panel. If the signal level is lower than 40%, select another place for installation. Sometimes, it is sufficient to shift the device ten or twenty centimeters to obtain a considerable improvement in the signal quality.
5. Having checked that the selected location of installation ensures the optimum level of radio signal, disconnect the temporary 12 V DC power supply.
6. Place the enclosure base against the wall and mark location of the mounting holes.
7. Drill the holes in the wall for wall plugs (screw anchors).
8. Make an opening for wire harness in the enclosure base.
9. Run the wires through the opening made (power wires, cables connecting wired devices with the expander, etc.).
10. Using wall plugs (screw anchors) and screws, secure the enclosure base to the wall.
11. Connect detectors to the expander zones. For the EOL configuration, use a 2.2 k Ω resistor, and for the 2EOL configuration – two 1.1 k Ω resistors.
12. If the tamper switch is to be supervised, connect the tamper output terminals to the expander zone (you can connect the tamper output in parallel with the detector and configure the expander zone as 2EOL).
13. Connect the devices to the expander outputs.

Note: *Given the specific character of radio communication, it is not recommended that the expander be used in applications where quick switchover of the output status is expected.*

14. Connect 12 V DC power wires to the +12V and COM terminals.
15. Replace the cover and then lock it with the screw.

16. Power on the expander.
17. Configure the expander settings (refer to ACU-100 / ACU-250 / ACU-120 / ACU-270 controller manual or INTEGRA / VERSA / VERSA Plus control panel programming manual).

Note: *Taking into account the requirements of EN50131-3 standard, do not enter any values exceeding 300 ms when configuring the sensitivity of zones.*

Hereby, SATEL sp. z o.o., declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at www.satel.eu/ce