

Unicont SPb Ltd.

**Alarm Unit
AU-206**

Technical documentation

**Saint-Petersburg
2008**

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1. Purpose

Alarm Unit AU-206 is meant for visual and acoustic warning of navigator on activation of external alarm of any ship equipment connected to alarm unit on the basis of disconnection of “dry” contacts.

Also the device has power output for external equipment control.

Output is set up for power supply outage resulted from alarm response at any of input ports.

2. Delivery set

- Alarm Unit AU-206 1 pc
- Technical documentation 1 pc

3. Technical characteristics

Electric characteristics

Power supply voltage	9..36 VDC
Maximum power consumption	No more than 3 W
Galvanic isolation from power supply circuit	Yes
Protection from connection with reverse polarity power supply	Power supply polarity is not important

Operating characteristics

Weight	No more than 0,7 kg
Overall dimensions	120 x 130 x 51,5 mm
Operating temperature	-25..+55 °C
Storage temperature	-55..+75 °C

Input/output characteristics

Inputs number	5
Inputs type	«Dry» contacts disconnection sensor
Power output voltage	Equal to power supply voltage

4. Principle of operation

In case of pin disconnection at any of 5 device inputs AU-206 turns on acoustic and light alarm (light diode “Alarm” is blinking, light diode of respective input is alight with yellow) and closes contact «-» of power output to the «-» of the input power supply of the device, thereby power is supplied to external operating mechanism.

Acoustic alarm is not switched off until activation button is not pressed or signal of corresponding input is not turned off.

After alarm acknowledgement, if alarm signal is still present at the inputs, acoustic alarm turns off, but light diode “Alarm” is alight permanently. At the same time power supply to external operating mechanism is being proceeded.

There are number of light diodes on the device panel:

Light diode	Color	Functionality
Power	Green	Power supply indicator. Light is on when power is supplied to the device.
D1, D2, D3, D4, D5	Yellow	Inputs mode indicator. Respective light diode is on when contacts are disconnected (alarm is activated).
Alarm	Red	Light alarm. When alarm is on at any of input ports it starts blinking. After acknowledgement of the signal, if a message on alarm activation is still being sent to the input of AU-206, alarm is alight permanently.

Button “Test” is provided for light diode and alarm test. If button “Test” is held in pushed position all light diodes are alight, acoustic alarm is on, otherwise device operates in normal mode.

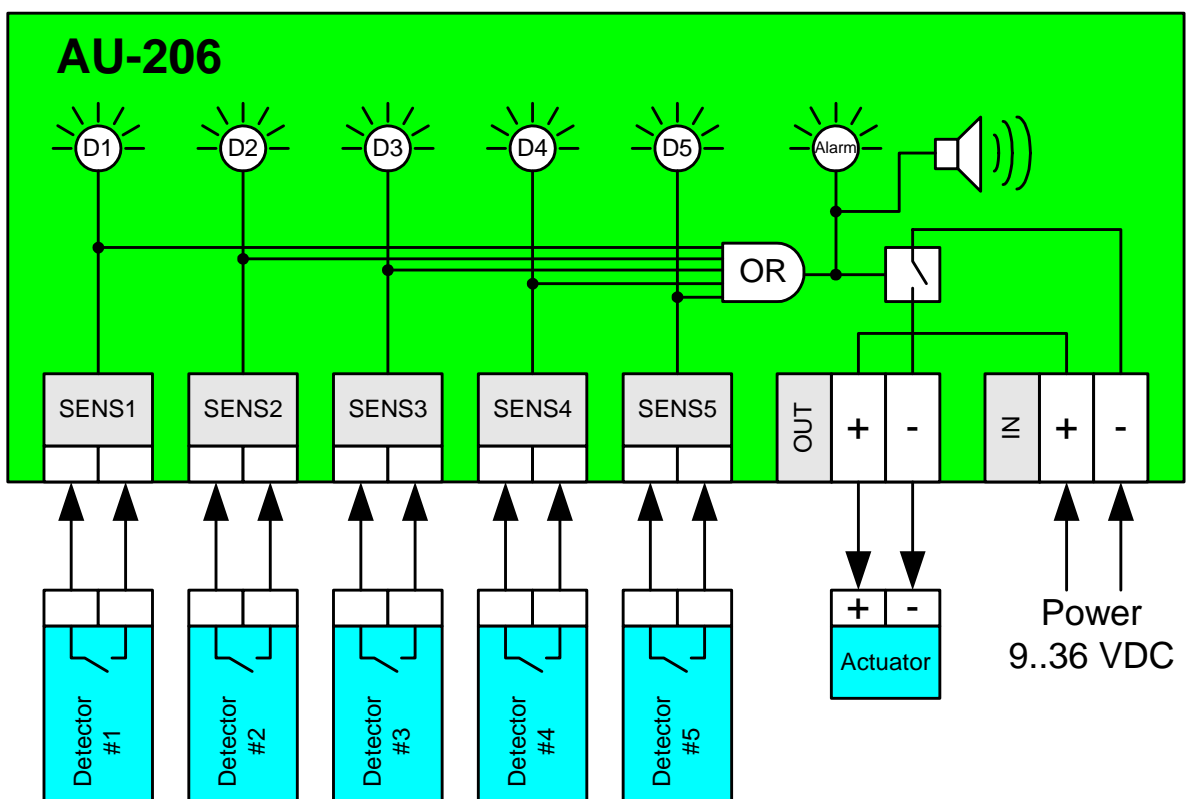


Fig. 1. Block-scheme of device.

5. Installation and connection of device

It is recommended to perform device setting in the following sequence:

1. Choose the place for device installation, provide easy access, cables input and cable-end splitting.
2. Prepare mounting holes on the panel for device installation. (See Fig.2)
3. Fix the device and screw it.
4. Remove device face panel.
5. Connecting wires of power supply units and connected devices connect with terminal blocks according to connection scheme (Fig.1) and fix them with cable coupling at special corbel.
6. Install device face panel

7. Supply power to the device.
8. Do functional test of the device.

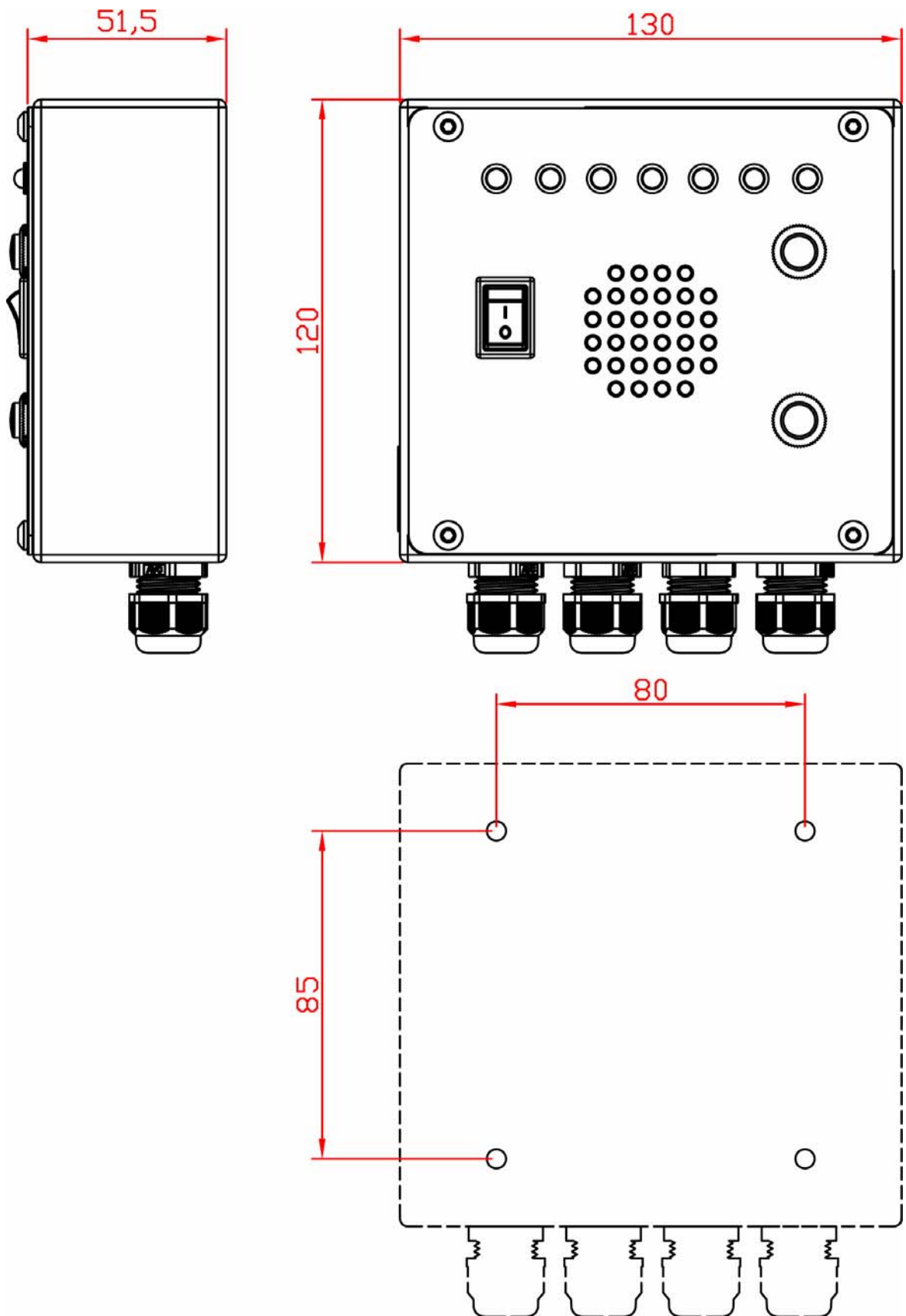


Fig. 2. Dimensional drawing.

6. Warranty

The producer guarantees the conformity of the device AU-206 with the present technical manual in case of maintenance of operating, transportation and storage conditions during warranty period.

Warranty period terminates in 18 months from the sales moment or in 12 months from the date of device commissioning.

During the warranty period the device owner has the right for repair free of charge or for change of separate device block, if the malfunction appeared through producer's fault. Warranty repair is to be effected in case of presence of the operation manual and of data on acceptance and commissioning of the device stated in the manual.

The Producer is not responsible for and doesn't guarantee the workability of the device:

- 1) after expiration of the warranty period
- 2) in case of failure to maintain operating, transportation and storage terms for the device
- 3) in case of loss of the device commodity view or wholeness of the case and on other reasons not depending on the Producer
- 4) in case of use of self-made electric devices
- 5) if the device is repaired by a person, not being a representative person of the Producer

In case of failing to present the mark on commissioning the warranty period is to calculate from the sales date.

In case of failure to present this manual duplicate of data on acceptance and commissioning is not to be issued, and the owner loses the right for repair free of charge during the warranty period. After the expiry of warranty period the Producer assists in device maintenance at the expenses of the owner.

Note: in case of warranty repair device demounting and delivery of the device to the service-centre of the Producer is effected at the expenses of the device owner.

7. Sales data

Serial No. _____

Date of manufacture _____

Number of indicators _____

Supplier OOO «Unicont SPb»

Stamp here

8. Acceptance data

The device is produced and accepted in accordance with compulsory conditions of the government standards, present technical documentation and is recognized ready for operation.

Signature of the responsible person

Stamp here

9. Commissioning certificate

Alarm Unit AU-206

Serial No. _____

Accepted for operation

Date _____

Place of installation _____

Installed by _____