Appendix A

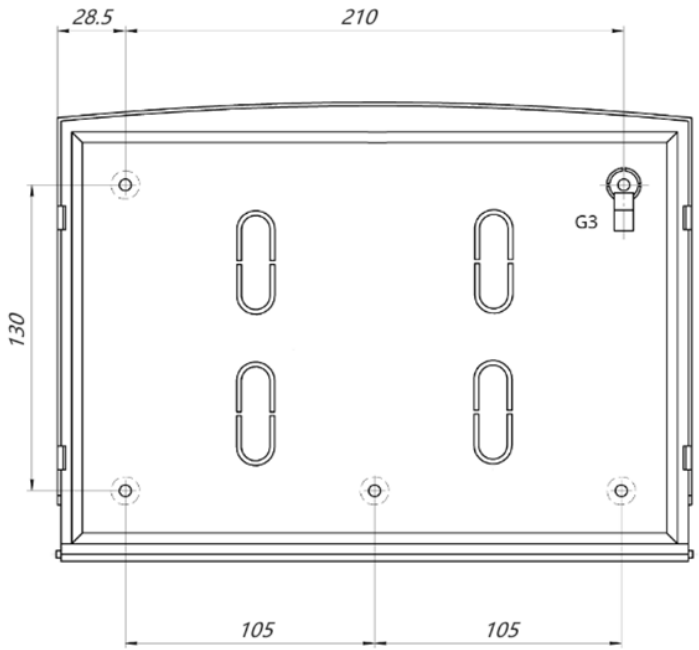
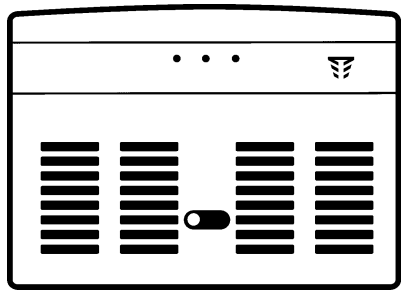


Figure A.1 – Installation dimension of the panel



P-IND32

Indication panel

User manual

“Tiras-12” LTD
Ukraine, Vinnytsia,
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More information on the site
tiras.technology

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1 GENERAL INFORMATION

P-IND32 is an indication panel (further – panel) designed to display the status of 32 zones or groups in the system built based on the Orion NOVA L (LTE) security control panel (further – SCP). The panel displays the status of zones or groups on LED indicators that can be signed. When the state of a group or zone changes (arming, alarm, etc.), the color of the indicator changes. Correspondence of indicator operation modes to the state of zones or groups is given in the SCP User manual. The built-in buzzer sounds in addition to the panel light indication in the event of alarm. The panel is powered by the SCP or an external power supply unit.

The panel is intended for continuous 24h work in premises with regulated climatic conditions without the direct influence of climatic factors of the environment.

2 SPECIFICATIONS

Technical specifications of the panel are given in Table 2.1.

Table 2.1 – Technical specifications of the panel

Parameter	Value
Power supply voltage (DC), V («12V», «GND» terminals)	9.3 – 15.2
Maximum current consumption, mA	80
Number of indicators	32
Dimensions (L×W×H), mm	265×195×48
Net weight, kg	0.6
Operating temperature range at relative humidity up to 75% without condensation	from -10°C to + 40°C
Average service life, years	10

3 INSTALLATION, CONNECTION AND SETTING

The panel is designed for wall mounting. To install panel, first open its case to access the mounting holes. To open the case, you need to insert a flat screwdriver into the holes on the sides of the case and press the latches inside the holes. On the base of the case there are holes for screw fastening to the wall. The G3 element on the base is intended to detect the case separation from the wall. It should be fixed with a screw to the wall. When the base is detached from the wall, the G3 element remains on the wall, leading to the tamper break. The mounting surface must be flat and ensure a tight fit of the base after installation.

Installation dimensions of the panel are shown in Figure A.1, Appendix A.

Caution:

1. All connections must be carried out by qualified personnel in accordance with the electrotechnical regulations and fire safety regulations.
2. Installation and connections must be carried out with the power supply disconnected.
3. Printed circuit board of the panel contains static-sensitive components. To avoid damage to sensitive components before handling any boards you should discharge static electricity in your body by touching the ground.

Enter the wires via appropriate holes of the panel case and make all connections in accordance with the SCP User manual and the connection diagram shown in Figure 3.1. Make sure that the wires are securely fixed in the panel terminals.

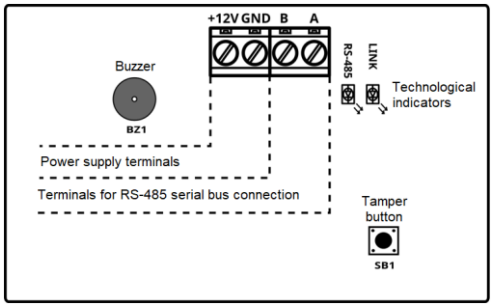


Figure 3.1 – The connection diagram

On the panel board there are technological indicators LINK and RS-485. The description of the operation of the indicators is given in Table 3.1.

Table 3.1 – Description of technological indicators

Name	Status	The communication status via the RS-485 bus
LINK	***Light***	Availability of exchange via the RS-485 interface. The panel is assigned correctly
	Blink	No exchange via the RS-485 interface. The panel is not assigned or is assigned incorrectly
RS-485	***Light***	Availability of incoming packets via the RS-485 interface
	Blink	No incoming packets via the RS-485 interface

Each panel has a unique nine-digit serial number. This number is used to assign the panel to the SCP using the oLoader II software. The serial number of the panel is indicated on its printed circuit board and duplicated on the case.

4 PACKAGE CONTENTS

After unpacking, visually inspect the panel to make sure it has no mechanical damage, check the completeness according to Table 4.1.

Table 4.1 – Package contents of the panel

Name	Quantity, (pcs.)
P-IND32 panel	1
User manual	1

ATTENTION! The characteristics and package contents of the panel may be changed by the manufacturer without additional notification.

5 REGULATORY COMPLIANCE

Hereby, "Tiras-12" LTD declares that the model P-IND32 complies with EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU.

The full text of the EU declaration of conformity is available at the following internet address: tiras.technology.

In accordance with the EU Directive 2012/19/EU on waste electrical and electronic equipment, the panels should be disposed of separately from household waste. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.

6 WARRANTY OBLIGATIONS AND REPAIR INFORMATION

The manufacturer guarantees compliance of the panel with the declared characteristics during the warranty period of operation and under the conditions of transportation, operation, and storage.

The warranty period is 36 months and is valid from the date of sale specified below or in other accompanying documents (contract, invoice, etc.). If you do not provide a document confirming the date of sale of the panel – the warranty period is calculated from the date of manufacture of the panel.

_____ (date of sale) _____ (seller's signature) seller's stamp

The panel is repaired by the manufacturer or its authorized representative. Panel is repaired for free, in case the warranty period has not expired, and it was operated in accordance with the accompanying documentation. For repairs, the panel is sent together with the document, which indicates the date of sale, and with a letter stating: the nature of the fault, the place of operation, contact person for repair.

If the panel is not working properly, please contact technical support first, perhaps this problem can be resolved remotely.

The date of manufacture of the panel and/or its serial number are indicated on the panel label and packaging.

Information about limitation of liability is available in the "Warranty" section on the website: tiras.technology.

7 CONTACTS OF THE MANUFACTURER

"Tiras-12" LTD, Ukraine, Vinnytsia, Khmelnytskoho Shose lane 2, b. 8

Sales department: market@tiras.ua

Technical support: support@tiras.ua

Warranty and post-warranty service: otk@tiras.ua