

S2000M
Intrusion and Fire
Monitoring and Control Panel

ISO 9001



Data Sheet

1 Main Information

1.1 The S2000M Intrusion and Fire Monitoring and Control Panel (hereinafter as S2000M panel) is designed to work as a part of intrusion detection, fire alarm and extinguishing control systems. Combined with units of Orion Integrated Security System (ISS), the S2000M can operate as a modular intrusion and fire alarm panel to control audible, visible and voice alarm systems, as well as gas, powder and water extinguishing systems, smoke removal and building utilities. The communications between system units is provided over the RS-485 interface. The device functions can be expanded with additional units and modules.

1.2 The panel has a keypad, two-line alphanumeric LCD, and status indication LEDs. The panel connectivity includes one RS485 output for connecting system devices and one multifunctional RS232 output. The RS232 output can be used to connect the following to the panel: Orion-Pro Suite workstation, RS232-interface printer to print the event protocol, RS-202TD radio transmitter to route event messages to Rif -String radio system, ATS100 radio transmitter (via signal interfacing module) to issue event messages to the LARS system, and TRX-150 radio transmitter.

1.3 As a part of a modular system, the S2000M supports the following:

- Receives the states of addressable detectors, inputs and outputs, actuators/appliances, and modules
- Provides visible and audible indication of conditions such as Alarm, Fire, Start, Stop, Fault, and Disabled.
- Controls operation conditions of intrusion detection, fire alarm and fire protection systems (password- protected)
- Controls actuators / appliances such as visible/audible and voice alarms, smoke removal and fire extinguishing systems, as well as Fire, Alarm, Fault and Start/Activation signal outputs
- Records events in the Event Log
- Provides communications between modules and monitoring for communication faults

1.4 The S2000M must be operated indoor and protected premises where it cannot be exposed to atmospheric precipitation and physical damage. The S2000M is designed for 24/7 continues operation. It is not designed to be used in aggressive, dust, explosive and fire-hazardous environments.

1.5 In terms of climate immunity, the product complies with Design Category O4 of OST 25 1099-83 Russian Industry Standard for the operation in temperature range of 263 to 328 K (-10 to +55°C). Humidity is 93% with no condensation at temperature 313 K (40°C).

2 SPECIFICATIONS

- Up to 127 connected devices.
- Up to 2,048 monitored device inputs
- Up to 256 controllable device outputs
- Up to 511 partitions (zones), up to 128 partition groups
- Up to 2,047 credential records (users)
- Event log: 8,000 events
- RS485 communication line: up to 3,000 meters (no longer)
- RS232 communication line: no more than 20 meters
- Indications: LCD with yellow-green illumination, two lines with 16 characters each)
- Power supply range (from DC uninterruptible power supply): 10.2V - 28.4V.
- Average current consumption in the quiescent mode: 60mA at 12V or 35 mA at 24 V.
- Maximum current consumption in the alarm: no more than 120 mA at 12V or no more than 65 mA at 24V.
- IP protection rating: IP30 (wall mounted)
- Weight: no more than 0.3 kg.
- Dimensions: 140×114×25 mm.
- Precious material content: Accounting is not required for storage, decommissioning and disposal
- Average life time is 10 years at least taking into account regular maintenance service. The replacement of a panel keypad may be required during the panel life time.

Detailed descriptions of functions, technical specification, installation, settings and usage are provided in the User's Manual. The User's Manual and PProg configuration utility can be found at: <http://bolid.ru/>.

3 STANDARD DELIVERY

- | | |
|---|--------|
| 1) S2000M Intrusion and Fire Monitoring and Control Panel ACDR.426469.027 | 1 pcs |
| 2) Datasheet ACDR.426469.027 DS | 1 pcs |
| 3) Installation Manual, ACDR.426469.027 IM | 1 pcs |
| 4) Materials: | |
| – Screws: 1-4x30.019 GOST 1144-80 | 3 pcs. |
| – Nailing plugs 8x35 | 3 pcs |

Optional:

- 1) Printer cable ACDR.685611.015;
- 2) PC cable ACDR.685611.066.

4 OPERATION INSTRUCTIONS

- 4.1 Installation and settings must be carried out as set forth in User's Manual and Installation Manual.
- 4.2 The panel does not have circuits containing hazardous voltages.
- 4.3 The design of the panel complies with the requirements of electrical and fire safety as per Russian Standards GOST 12.2.007.0-75 and GOST 12.1.004-91. The design of the Panel ensure its fire safety in case of malfunction and misuse according to GOST 12.1.004091
- 4.4 Installation, connection and maintenance work can be provided only when the panel power supply is OFF

5 MAINTENANCE

The maintenance service for panel shall be provided once per year to include the following:

- Inspection for physical damage and reliability of fastening, and terminals tightening;
- Cleaning of terminals and panel enclosure from dust, grease and corrosion;
- Functionality tests according to the test methods described in the User's Manual in CD or downloaded at bolid.ru.

6 STORAGE INSTRUCTIONS

- 6.1 The panel must be shipped by covered vehicles in individual or multiple packages.
- 6.2 The shipment must be provided in accordance with shipping companies.
- 6.2.1. The panel storage in a consumer package must be provided in accordance with Storage Conditions of Class 1 as per GOST 15150
- 6.3 The storage facilities must be free from acid and alkaline fumes, aggressive gas and other corrosive-hazardous substances.
- 6.4 The shipment conditions must be in accordance with Storage Conditions of Class 5 as per GOST 15150.

7 WARRANTY

- 7.1 The manufacturer guarantees that the S2000M panel meets with technical requirements specified in the manuals if the user follows the instructions for shipment, storage, installation, and usage.
- 7.2 Warranty period is 18 months but no more than 24 months from the manufacturer's date of issue.
- 7.3 In case of any issue related to setting and use of the product, please contact with the technical support: (495) 775-71-55 or e-mail: support@bolid.ru.
- 7.4 When submitting the panel for repair, it shall be accompanied with descriptions of possible fault.

8 MANUFACTURER:

NVP BOLID CJSC, Pionerskaya #4, Korolyov city, Moscow region, Russia, 141070.
Phone/fax: (495) 775-71-55 (multiline), 777-40-20. E-mail: info@bolid.ru; <http://bolid.ru>.

9 CERTIFICATION INFORMATION

- 9.1 The S2000M Intrusion and Fire Monitoring and Control Panel complies with requirements of Technical Regulations on Fire Safety Requirements (Federal Law No. 123-FZ) and has Certificate of Conformity No. C-RU.ЧС13.B.00251.
- 9.2 The S2000M Intrusion and Fire Monitoring Panel complies with requirements of Technical Regulations of Customs Union and has the Declaration of Conformity No. RU Д-РУ.ME61.B.00318.
- 9.3 The S2000M Intrusion and Fire Monitoring and Control Panel is a part of the ORION Fire Alarm System that has the Certificate of Conformity No. BY/112 02.01.033.00251.
- 9.4 The panel production is certified with Certificate of Conformity to GOST ISO 9001–2011 (ISO 9001:2008) No. POCC RU.ИК32.K00153.

10 Acceptance and Packaging

The S2000M Intrusion and Fire Monitoring and Control Panel	ACDR.426469.027	_____
Product	Reference No.	Serial No.

Manufactured and accepted in accordance with requirements of national standard and current technical documentation; approved as ready for use and packaged by the Bolid Company.

Responsible for acceptance and packing

QCD _____
Name Date, Month, Year

