

ADDRESSABLE TWO OUTPUT ALARM ACTUATING UNIT

S2000-SP2 Rev.02

HCO 9001

Operations Manual



1 DESCRIPTION AND OPERATION

1.1 Purpose

1.1.1 S2000-SP2 Rev.02 Addressable Two Output Alarm Actuating Unit (hereinafter referred to as the unit) is intended to:

- Control executive appliances (light and sound alarms etc.) and automated fire protection equipment in public address systems and smoke control systems;
- Control clean agent suppression systems and fire-fighting equipment in water-based fire suppression systems, foam extinguishing systems, gas fire-fighting systems, dry powder fire-fighting systems, and aerosol fire-fighting systems;
- Generate control signals for engineering equipment and other devices involved in fire safety providing;
- Control other appliances (light and sound alarms, cameras, EM locks and so on) in intrusion alarm systems, panic alarm systems, process signaling systems, and access control systems

as a component of modular control and indicating equipment in cooperation with an S2000-KDL or S2000-KDL-2I polling loop controller and an S2000M or Sirius alarm control panel, or one of their modifications.

1.1.2 The unit is intended for round-the-clock operation.

1.1.3 The unit is classed as a restorable and regularly maintainable item.

1.1.4 The design of the unit doesn't provide its operation in aggressive and / or dusty environments as well as in explosion hazardous and flammable premises.

1.2 Specifications

Table 1.2.1

Parameter	Value
1.2.1 Power inputs	2
1.2.2 Power input voltage - for executive elements - for receive/transmit part	10.2 ÷ 28.4 V dc via the polling loop, 8 ÷ 12 V
1.2.3 Consumed current - for executive elements - for receive/transmit part	60 mA max (w/o regard to outputs' current) 1 mA max
1.2.4 Start-up time	15 s
1.2.5 Polling loop / executive part insulation voltage	500 V
1.2.6 Number of outputs	2
1.2.7 Maximum commuting current per a single output	3 A
1.2.8 Maximum total commuting current for the unit	4 A
1.2.9 Circuit operability monitoring current, max	1.5 mA
1.2.10 Circuit operability monitoring voltage	5 V

Parameter	Value
1.2.11 Commuting voltage	10.2 through 28.4 V from the power supply of the executive part
1.2.12 Enclosure protection degree as per GOST 14254-2015	IP40
1.2.13 Resistance to mechanical exposure as per OST 25 1099-83	Arrangement Category III
1.2.14 Vibration exposure: - Frequency range - Max acceleration	1-35 Hz (for Category III) 0.5 g (for Category III)
1.2.15 Environmental category as per OST 25 1099-83	O3
1.2.16 Operating temperatures	Minus 30 through + 55 °C
1.2.17 Weight	0.2 kg max
1.2.18 Overall dimensions	102×107×39 mm
1.2.19 Non-stop operation	24/7
1.2.20 MTBF in the quiescent mode	80,000 hours min
1.2.21 Survival probability	0.98758
1.2.22 Expected lifetime	10 years

1.2.23 As to immunity to man-made radio disturbance, the unit meets the requirements for Test Severity Level III of the relevant standards listed in Appendix 'B' of GOST R 53325-2012.

1.2.24 The unit passes the man-made radio disturbance standards prescribed for Class 'B' equipment as per GOST R 30805.22.

1.3 Standard Delivery

The standard delivery for the unit is shown in Table 1.3.1.

Table 1.3.1

Item	Quantity, pcs.
S2000-SP2 Rev.02 Addressable Two Output Alarm Actuating Unit	1
Operations Manual	1
Woodscrew 1-3×25.016	3
Wall Plug (for woodscrew 6×30)	3
Tapping screw 2.2×6.5	1
MPN Load Connection Module	2
Packaging	1

2 INTENDED USE

2.1 Design of the unit meets the requirements of electric and fire safety including emergency operation in accordance with Russian standards GOST 12.2.007.0-75 and GOST 12.1.004-91.

2.2 Do SHUT OFF power from the unit before mounting, installing, and maintaining this one.

2.3 Operating restrictions, design, mounting, connecting, settings, testing and operation procedures for the unit are described in details in its User's Manual (the full version), which is available online at bolid.ru in the section Products on the page of **S2000-SP2 Rev.02 Addressable Two Output Alarm Actuating Unit** and in the mobile app 'Mobile Product Catalogue' <https://bolid.ru/support/mobile-catalogue/>.



2.4 If a technical failure of the product has been found, the equipment shall be taken out of operation and sent for repair in accordance with Section 4.

3 MAINTENANCE

3.1 The unit shall be maintained by personnel qualified for Electrical Safety of Level II or higher.

3.2 Maintenance works for the unit are described in its User's Manual (the full version), see 2.3.

4 REPAIR

4.1 Repair of faulty equipment is to be conducted by the manufacturer or in authorized repair centers. The product shall be sent for repair in compliance with Company Standard QMS 8.5.3-2015, which can be found online at our website <https://bolid.ru/support/remont/>.

Warning!



The equipment shall be submitted for repair being assembled and clean and along with all the parts listed in the documentation.

Claims are accepted only if a reclamation report describing the failure is applied to the submitted equipment.

4.2 An equipment fault resulted from consumer's not observing rules of mounting and operation is not a reason for claims and warranty repair.

4.3 Claims shall be submitted to the following address:

NVP BOLID, #4 Pionerskaya Str., Korolyov, Moscow Region, 141070, Russia

Phone/fax: +7 (495) 775-71-55 (PBX), E-mail: info@bolid.ru.

4.4 In case of any issue related to use of the product, please contact the technical support:

+7 (495) 775-71-55 or e-mail support@bolid.ru.

5 STORAGE

5.1 Storage in a transport container is permitted at ambient temperatures minus 50 through + 55 °C and relative humidity up to 95% at + 35 °C.

5.2 In the consumer package the equipment can be stored only in heated premises at ambient temperatures +5°C through +40°C and relative humidity up to 80% at +20°C.

6 TRANSPORTING

6.1 The units can be transported in a transport container at ambient temperatures ranged from minus 50°C to +50°C and relative humidity of 95% at +35°C.

7 DISPOSAL

7.1 The unit can be disposed of considering that there are no toxic components in it.

7.2 The content of precious materials: doesn't require accountability for storage, retirement, and disposal (Clause 1.2 of GOST 2.608-78).

7.3 The content of non-ferrous metals: does not require accountability for retirement and further disposal.

8 MANUFACTURER WARRANTY

8.1 The manufacturer guarantees the product meets with technical requirements stated in the manuals if the user follows the instructions for transportation, storage, installation, and usage.

8.2 The warranty period is 18 months since putting the product into operation but no more than 24 months from the manufacturer's date of production.

9 CERTIFICATION INFORMATION

For certification information, please refer to User's Manual (the full version), see 2.3.

10 ACCEPTANCE AND PACKAGING CERTIFICATE

S2000-SP2 Rev.02 Addressable Two Output Alarm Actuating Unit,

Factory No. _____ is manufactured, accepted in line with mandatory requirements of national standards and applicable technical documentation, approved as ready for use, and packed by the NVP Bolid Company.

Responsible for Acceptance and Packing

QCD _____
Full Name

Date, Month, Year

