

# ADDRESSABLE MANUAL CALL POINT

## IPR 513-3AM-S



ICO 9001

### OPERATIONS MANUAL

## 1. DESCRIPTION AND OPERATION

### 1.1 Purpose

1.1.1 IPR 513-3AM-S Addressable Manual Call Point (hereinafter referred to as the MCP) is to be used in fire detection and fire alarm systems for manual activation of fire alarm signals.

1.1.2 The MCP is designed to operate under a polling loop controller such as S2000-KDL, S2000-KDL-2I, S2000-KDL-2I rev.01, S2000-KDL-S as a component of Orion Integrated Security System. The MCP is supplied with power and communicates data via a two-wire multiplex addressable polling loop.

1.1.3 The MCP features extended operating temperature range.

1.1.4 The MCP features a short circuit isolator built in.

1.1.5 The MCP is intended for round-the-clock operation.

1.1.6 The MCP is classed as a repairable and periodically maintained item.

1.1.7 The design of the MCP 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 input voltage (from the polling loop), V	8 through 11
1.2.2 Consumed current, mA, max	0.5
1.2.3 Current consumed on short circuit isolator tripping, mA, max	3.3
1.2.4 Start-up time, s, max	15
1.2.5 MCP units per a polling loop, pcs., max	127
1.2.6 Short circuit isolator, pcs.	1
1.2.7 Maximum effective resistance of the polling loop wires, ohms, max	100
1.2.8 Minimum insulation resistance between the polling loop wires, kilo-ohms, min	50
1.2.9 Enclosure protection degree as per GOST 14254-2015	IP40
1.2.10 Resistance to mechanical exposure as per OST 25 1099-83	Arrangement Category III
1.2.11 Vibration exposure: - Frequency range, Hz - Max acceleration, g	10 - 150; 0.5;
1.2.12 Environmental category as per OST 25 1099-83	O3
1.2.13 Operating temperatures, °C	Minus 50 through plus 55
1.2.14 Relative humidity, %, at +40°C	Up to 93
1.2.15 Weight, kg, max	0.15
1.2.16 Overall dimensions, mm, max	95×91×34

Parameter	Value
1.2.17 Non-stop operation	24/7
1.2.18 MTBF in the quiescent mode, hours, min	80,000
1.2.19 Survival probability after 1000 hours	0.98758
1.2.20 Maximum lifetime, years	10

1.2.21 As to immunity to man-made radio disturbance, the MCP meets the requirements for Test Severity Level III with performance criterion A of the relevant standards listed in Appendix “B” of GOST 34698-2020.

1.2.22 The MCP passes the industrial interference standards prescribed for Class ‘B’ equipment as per GOST R 30805.22.

### 1.3 Scope of Delivery

The scope of delivery for MCP is shown in Table 1.3.1.

**Table 1.3.1**

Item	Q-ty, pcs.
IPR 513-3AM-S	10
Operations Manual	1
Special housing key	10
Screw 1-4×30.20.019 GOST 1144-80	20
Wall plug 8×30	20

## 2 INTENDED USE

2.1 The MCP design 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 equipment before mounting, installing, and maintaining this one.

2.3 Operating restrictions, design, mounting, connecting, settings, testing and operation procedures for the MCP are defined in details in its User’s Manual (the full version), which is available online at [bolid.ru](http://bolid.ru) in the section Products on the page of IPR 513-3AM-S.

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 MCP shall be maintained by professionals qualified for Accident Prevention of Class II or higher.

3.2 Maintenance works for the MCP are described in its User’s Manual (the full version).

## 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/>.



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### 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.

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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: +7 (495) 775-71-55, E-mail: [info@bolid.ru](mailto: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](mailto:support@bolid.ru).

## 5 MARKING AND SEALING

5.1 Every MCP has a marking affixed to the inner side of its enclosure.

5.2 The marking contains the name of the manufacturer, the name of the product, its decimal number, factory number, the year and quarter of production, the level of enclosure protection, and conformity marks.

## 6 PACKAGING

The MCP along with accessory kit and operation documentation are packed in to a cardboard box.

## 7 STORAGE

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

7.2 Storage in the consumer package is permitted only in heated premises at temperatures plus 5 through plus 40°C and relative humidity up to 80% at plus 20°C.

## 8 TRANSPORTING

8.1 The detector can be transported in a transport container at ambient temperatures minus 50 through plus 50°C and relative humidity up to 95 % at plus 35°C.

## 9 DISPOSAL

9.1 The MCP is to be disposed of considering that there are no toxic components in it.

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

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

## 10 MANUFACTURER WARRANTY

10.1 The manufacturer guaranties the product meets the technical specifications stated in this manual if the user follows the instructions for transportation, storage, installation, and usage.

10.2 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.

## 11 CERTIFICATION INFORMATION

For certification details, please refer to MCP User's Manual (the full version).

## 12 ACCEPTANCE AND PACKING CERTIFICATE

IPR 513-3AM-S Addressable Manual Call Points (serial numbers are located on labels inside their housings) are manufactured, accepted in line with mandatory requirements of national standards and applicable technical documentation, approved as ready for use, and packed by the Bolid Company.

Responsible for Acceptance and Packing

QCD \_\_\_\_\_  
Full Name

\_\_\_\_\_  
Date, Month, Year

