

# STANDALONE PHOTOELECTRIC SMOKE ALARM

**HCO 9001**

**IP 212-34AVT DIP-34SA**



## OPERATIONS MANUAL

### 1 DESCRIPTION AND OPERATION

#### 1.1 Purpose

1.1.1 IP 212-34AVT DIP-34SA Standalone Photoelectric Smoke Alarm (hereinafter referred to as the alarm) is to be used in fire detection and fire alarm systems.

The alarm is designed to detect inflammations in closed areas of various buildings by registering the light scattered by smoke particles and automatic generation of fire signals as light and sound alarms.

The alarm is powered by a replaceable battery installed within it.

If necessary, the alarms can be combined together into groups of up to 38 units each. In such case a response of a single smoke alarm causes other alarms from the group to sound too.

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

1.1.3 The alarm is classified as a restorable and periodically maintained item.

1.1.4 The design of the alarm 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 Input Power	6F22 9v Battery
1.2.2 Battery Voltage, V dc	9.3 through 7.5
1.2.3 Operation in quiescent mode from the battery supplied, years	3 through 5
1.2.4 Consumed current, uA, max	15
1.2.5 Start-up Time, s	60
1.2.6 Sensitivity, dB/m	0.05 through 0.2
1.2.7 Enclosure protection degree as per GOST 14254-2015	IP41
1.2.8 Resistance to mechanical exposure as per OST 25 1099-83	Arrangement Category III
1.2.9 Vibration exposure: - Frequency range, Hz - Max acceleration, g	1-35 0.5
1.2.10 Operating temperatures, °C	Minus 10 through plus 50
1.2.11 Weight, kg, max	0.1
1.2.12 Overall dimensions, mm	35×Ø102
1.2.13 Non-stop operation	24/7
1.2.14 MTBF in the quiescent mode, hours, at least	80,000
1.2.15 Survival probability after 1,000 hours	0.98758
1.2.16 Expected lifetime, years	10

1.2.17 As to immunity to man-made radio disturbance, the alarm meets the requirements for Test Severity Level III as per the relevant standards listed in Annex 'B' to GOST R 53325-2012.

1.2.18 The alarm passes the industrial interference standards prescribed for Class 'B' equipment as per GOST R 30805.22.

#### 1.3 Standard Delivery

Table 1.3.1 represents the content of the alarm standard delivery.

Table 1.3.1

Item	Q-ty, pcs.
IP 212-34AVT DIP-34SA Standalone Photoelectric Smoke Alarm	1
Operations Manual	1
ECT UY Connector	2
Woodscrew	2
Wall Plug	2
6F22 9v Battery	1
Protection Wire Cage (supplied separately)	—

## 2 INTENDED USE

- 2.1 The design of the alarm 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 alarm 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 DIP-34SA.
- 2.4 If a technical failure of the alarm has been discovered, the equipment shall be taken out of operation and sent for repair in accordance with para 4.



## 3 MAINTENANCE

- 3.1 The alarm shall be maintained by personnel qualified for Electrical Safety of Level II or higher.
- 3.2 Maintenance works for the alarm are described in its User's Manual (the full version).

## 4 REPAIR

- 4.1 Repair of a defective alarm is to be performed by the manufacturer or in authorized repair centers. The alarm should 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 alarm failure 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 STORAGE

- 5.1 Storage in a transport container is permitted at ambient temperatures minus 40°C through plus 50°C and relative humidity up to 95% at plus 35°C.
- 5.2 Storage in the consumer package is permitted only in heated premises at temperatures plus 5°C through plus 40°C and relative humidity up to 80% at plus 20°C.

## 6 TRANSPORTING

- 6.1 The alarms can be transported in a transport container at ambient temperatures minus 40 through plus 50°C and relative humidity up to 95 % at plus 35°C.

## 7 DISPOSAL

- 7.1 The alarm is to be disposed of considering that there are no toxic components in it.
- 7.2 Batteries are classed as hazardous waste of Class II, so used up batteries shall be disposed of by a specialized company that is licensed for this activity.
- 7.3 The content of precious materials: doesn't require accountability for storage, retirement, and disposal (Clause 1.2 of GOST 2.608-78).
- 7.4 The content of non-ferrous metals: does not require accountability for retirement and further disposal.

## 8 MANUFACTURER WARRANTY

- 8.1 The manufacturer guaranties 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

Certification Information are defined in details in DIP-34SA User's Manual (the full version).

## 10 ACCEPTANCE AND PACKAGING CERTIFICATE

IP 212-34AVT DIP-34SA Standalone Photoelectric Smoke Alarm is manufactured, accepted in line with mandatory requirements of national standards and applicable technical documentation, approved as ready for use, and packaged by the Bolid Company.

**BOLID**®