

# MANUAL RELEASE STATION

## UDP 513-3M



ИСО 9001

### INSTRUCTION MANUAL

#### 1 TECHNICAL DATA

##### 1.1 General

This electric contact UDP 513-3M Manual Release Station (hereinafter referred to as the UDP) is to be used in fire alarm and automatic firefighting systems in order to release the agent discharge manually.

The UDP is to be powered via an alarm input of such control and indicating equipment as S2000-4, Signal-20P, S2000-ASPT, Signal-10, Signal-20M, or a similar one providing loop voltage up to 30 V and limiting the current in the loop by 25 mA. In terms of construction, the UDP meets the requirements of Class "B" as per GOST R 53325.

The UDP is intended for round-the-clock operation and relates to repairable, periodically maintained products.

##### 1.2 Specifications

- |   |                         |
|---|-------------------------|
| 1) Switching Voltage  | - 30 V max              |
| 2) Switching Current  | - 25 mA max             |
| 3) Current Consumption in Quiescent Mode  | - 50 uA max             |
| 4) Ingress Protection Rating  | - IP40                  |
| 5) Class as per GOST R 53325  | - B                     |
| 6) Operating Temperature  | - Minus 30°C to +55°C   |
| 7) Relative Humidity  | - Up to 93% at +40°C    |
| 8) Transportation and Storage Temperature   | - Minus 30°C to +55°C   |
| 9) Overall Dimensions   | - 94 mm × 94 mm × 54 mm |
| 10) Weight  | - 0.2 kg max            |
| 11) Content of precious materials: not subject to inventory accounting in case of storage, disposal and recycling   |                         |
| 12) Content of nonferrous materials: not subject to inventory accounting in case of storage, disposal and recycling |                         |

##### 1.3 Standard Delivery

For *group* delivery:

- |                                 |            |
|---------------------------------|------------|
| - UDP 513-3M                    | - 10 pcs.; |
| - Instruction Manual            | - 1 pc.;   |
| - Special Key                   | - 10 pcs.; |
| - Woodscrew 3.5×20 GOST 1144-80 | - 20 pcs.; |
| - Woodscrew 3×13 GOST 1144-80   | - 20 pcs.; |
| - Wall Plug 7×22                | - 20 pcs.; |
| - Lead Seal                     | - 30 pcs.; |
| - Ø0.25 mm Copper Wire          | - 30 pcs.; |
| - Individual Packing            | - 10 pcs.; |
| - Group Packing                 | - 1 pc.    |

#### 2 OPERATION INSTRUCTIONS

##### 2.1 Using the UDP

Figure 1 shows a typical diagram for connecting the UDP:

- 1 stands for a control panel (CIE);
- 2, 3 stand for UDP release stations;
- 4 stands for a termination device (resistor, diode, etc.).

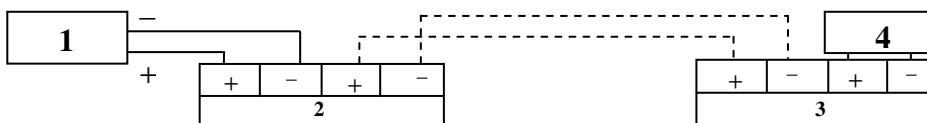


Figure 1

To get access to the actuator (keybutton), lift the transparent cover sealed with the copper wire of 0.25 mm thickness (the wire will be broken) and actuate the release station by pushing the keybutton located behind the cover.

UDP being in the quiescent mode is indicated by LED flashing once per about four seconds. After activating the UDP by pushing the keybutton the LED starts illuminating steady that confirms that the signal is received by the connected control and indicating equipment. In doing so the UDP reduces its internal resistance down to a value no more than 500 Ω. To provide activation of the firefighting system, the UDP should be associated with the relevant system outputs and a proper operation algorithm should be assigned. The ways to program the system are described in exploitative documents for alarm control panels, S2000M panel, and Orion Pro Software Suite.

##### 2.2 Mounting

The UDP shown disassembled in Figure 2 is to be attached by two screws to a wall following the requirements of Construction Standards and Regulations, in the following order.

Attach the base (3) with two woodscrews (7) to the wall. Then remove the front cover (1) from the central frame (2) and thread the wire (8) through the two lower holes of the central frame. Next, connect the wires passed within the base to the terminal block on the rear side of the central frame and fasten the last one to the base with two woodscrews (6). The assembled unit appears as shown in Figure 3. Finally, put the front cover on the assembled unit threading the wire ends through the key hole of the first one. One of the wire ends should be passed through the hole in the transparent cover. Run the wire ends through the lead seal, twist the wire ends together placing the twist within the seal, and seal the UDP by special sealing pliers. After sealing, the seal should be located not far than 15 mm from the cover as shown in Figure 4 to avoid unauthorized actuation of the UDP without breaking the wire. Do not use wires other than copper wire of 0.25 mm in diameter.

- 1: Front cover;
- 2: Central frame;
- 3: Base;
- 4: Transparent cover;
- 5: Special key;
- 6: Woodscrews 3×13;
- 7: Woodscrews 3.5×20;
- 8: Copper wire 0.25 mm;
- 9: Lead seal.

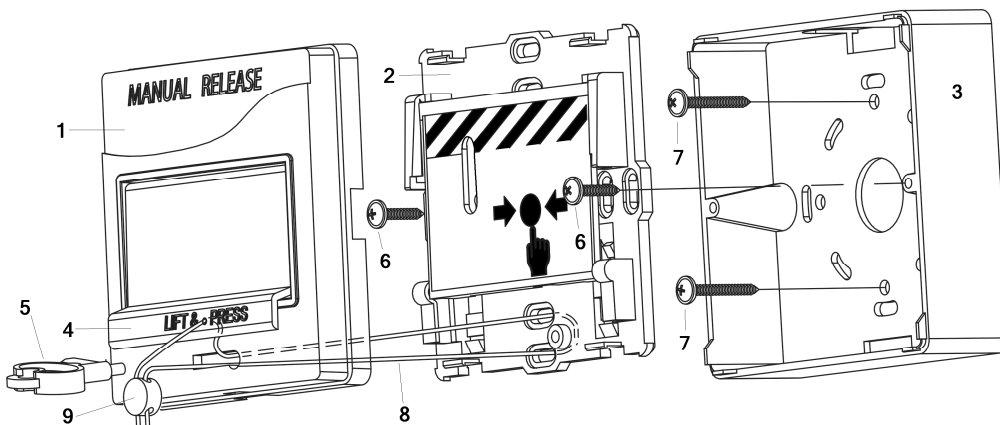


Figure 2

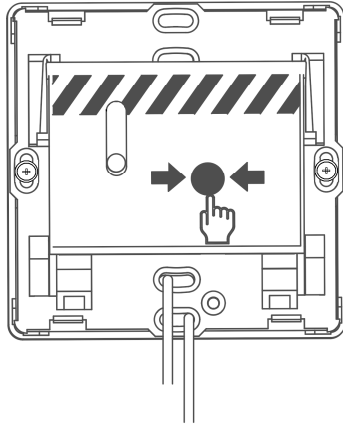


Figure 3

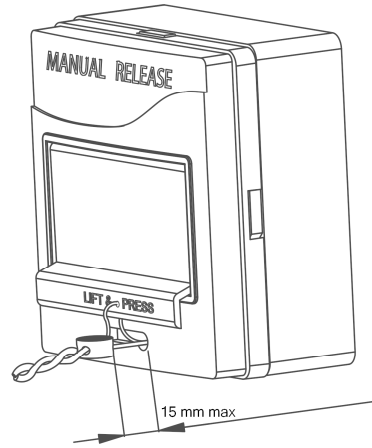


Figure 4

### 2.3 Routine Testing

2.3.1. Before testing the manual station, please disconnect executive outputs of all system devices and modules that can release an extinguishing agent. Notify the proper authorities that the system is undergoing maintenance.

2.3.2. Remove the lead seal from the protective cover of the UDP.

2.3.3. Arm the input the manual release station is connected to by means of the S2000M panel or the PC.

2.3.4. Activate the UDP by pressing on the keybutton. The UDP shall proceed to the Manual Release Activated status. Verify that the LED shows solid light while the network controller displays a Manual Release Activated message for the system input the UDP is connected to.

2.3.5. Reset the UDP to its Norm state by inserting the special key provided. Verify the UDP LED starts flashing once per 4 s. From the panel or PC send a command to cancel the alarm for the input connected with the UDP. If no Manual Release Activated message has been received by the S2000M panel or PC or UDP indication differs from that described in this manual then it means that the UDP is defective and must be replaced.

2.3.6. Repeat steps 2.3.3 – 2.3.5 three times or more.

2.3.7. After testing, verify that the UDP is ready to operate properly. Then restore operability of all the system components disconnected before testing and seal the UDP as described in 2.2. Finally, notify the proper authorities that the system is back in operation.

Inspect activation of the UDP at least twice per year.

**All the equipment used in testing must be known functioning!**

## 3 MAINTENANCE

The UDP should be maintained at least annually by specialists having at least third electrical safety qualification level.

Maintenance works shall include:

- Ensuring the UDP housing is not damaged and wire terminals are fastened properly;
- Removing dust, debris, and corrosion from the contact connections and the housing of the UDP;
- Testing operability of the UDP as discussed in Section 2.3 of this manual.

## 4 MANUFACTURER WARRANTY

4.1 The average lifetime of the UDP 513-3M is 10 years.

4.2 The warranty period is 18 months since the day of putting the UDP into operation but no more than 24 months from the manufacturer's date of issue.

4.3 If you have any problems with configuring or operating the UDP please contact the technical support by phone **+7 495 775-7155** or by email [support@bolid.ru](mailto:support@bolid.ru).

4.4 While returning the product for repair, please apply a report describing the potential failure.

Claims should be submitted to the address: ZAO NVP Bolid, 4 Pionerskaya Str., Korolev 141070, Moscow Region, Russia.

**Phone/fax: +7 (495) 775-71-55 (PBX), 777-40-20, 516-93-72.**

**E-mail: [info@bolid.ru](mailto:info@bolid.ru), Technical Support: [support@bolid.ru](mailto:support@bolid.ru), <http://bolid.ru>.**

## 5 CERTIFICATES

5.1 UDP 513-3M is certified by Conformity Certificate № C-RU.4C13.B.00911.

5.2 Conformity Declaration TC № RU C-RU.ME61.B.01548 certifies that UDP 513-3M meets the requirements of Technical Regulations of Custom Union TR CU 020/2011.

5.3 Production of UDP 513-3M is certified in line with Russian GOST R ISO 9001-2015 by Conformity Certificate No. POCC RU.AB66.K00003.

## 6 ACCEPTANCE AND PACKAGING CERTIFICATE

UDP 513-3M manual release stations (the serial numbers are inside their cases) ) are accepted in accordance with mandatory requirements of state standards and current technical documentation, qualified as proper for operation and packaged by CJSC NVP "Bolid".

Responsible for acceptance and packaging

**BOLID**®

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QCD

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