SCB
Electronmash

ADDRESSABLE
MANUAL CALL POINT

IPR-A CV1513

Manual

EN

MANUFACTURING ENTERPRISE
ALC “SCB “ELECTRONMASH”
st. Holovna, 265B,Chernivtsi,
Ukraine 58018
tel. (+38) 0372 55 04 29, (+38) 0372 58 10 99;
fax (+38) 0372 58 10 64
e-mail: spau@chelmash.com.ua
http://www.chelmash.com.ua
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The instruction manual is intended for studying the device, operation and operating rules of the fire detector of the manual address "CV1513" (hereinafter the detector).

Legend in the text:

BFL-A - block of an address line CV1510;
CV1513 - addressable manual call point;
C.I.E. - fire alarm control and address device " Varta-Adres ".
FL-A - the addressable alarm loop.

The addressable manual call point "CV1513" comply with the requirements of EN 54 - Fire detection and fire alarm systems - Part 11 : Manual call points.

1 DESCRIPTION AND OPERATION

1.1 Purpose

1.1.1 The addressable manual call point "CV2013" is designed to provide a signal about the occurrence of a fire (alarm) manually in the address settings of the fire alarm and automation systems based on the components of fire and address systems CV2000.

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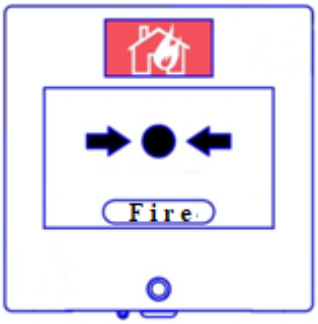
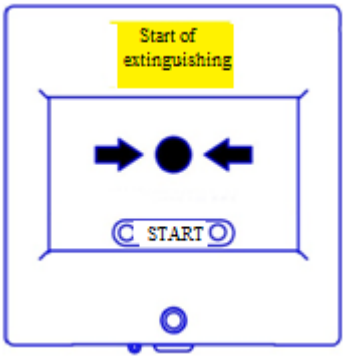
ALC „SCB ”ELECTRONMASH”, 265b,Holovna str., 58018, Chernivtsi Ukraine **25** register № DCS.0001895-24
EN54-11 Manual call points A CV1513 Technical data: see Doc. 425211.009

1.1.2 CV1513 is available in several versions, which differ in the color of the case and the inscriptions.

№	Appearance and color of the case
1	 Red
2	 Yellow
3	 Green
4	 White

1.1.3. Operating conditions:

- ambient temperature from minus 10°C to + 60°C;
- relative humidity of the ambient air from 35% to 95% at a temperature of 35°C;
- atmospheric pressure from 84 kPa to 107 kPa.

1.1.4 Detector operating mode is round-the-clock continuous.

1.2 Technical specifications

1.2.1 The main technical data of the detectors are given in Table 1.

Table 1

Name of technical characteristic	Parameter value	Comment
1. Time of technical readiness, s, no more than	40	
2. Rated supply voltage, V	24	from FL
3. Current consumption, mA, no more than	2	

1.2.2. The light indication of the status of the detectors corresponds to Table 2.

Table 2

Operating mode of the detector	Indication
"Normal"	Single flashes with a period of about 8 s (left LED)
"Fire"	Constant glow with both LEDs
Receiving commands	7 flashes (left LED)
Communication failure	of 3 flashes (left LED)
Other malfunctions	2 flashes (left LED)
Addressing	Single flashes with a period of about 4 s (left LED)

1.2.3. The detector provides a transition to the "Fire" mode from the "Normal" status, the alarm message and the light indication when the button is pressed and return to the "Norm" mode after the return-to-return mechanism returns to the operational standby position with the key.

1.2.4 The detector constantly transmits information about its address and current status via the FL.

1.2.5 The detector has a built-in short-circuit isolator.

1.2.6. The detector for resistance to electrostatic discharge, emitted electromagnetic fields, conductive radio interference, short-time transient impulses, emission interference, and mechanical resistance correspond to EN54-11.

1.2.7 The overall dimensions of the detector are not more than (86x88x50) mm.

1.2.8 The mass of the detector is not more than 0.18 kg.

1.2.9 Mean time between failures of the detector is not less than 70000 h.

1.2.10. Service life is not less than 10 years.

1.3 Device

1.3.1. The detector consists of the detector body with the cocking mechanism in the "Fire" mode and return to standby mode and the detector unit on which the terminals for connection to the FL are located. To return to the standby state, the key is used.

1.3.2. The overall and mounting dimensions of the detector CV1513 are shown in Fig. 1, the arrangement of the terminals on the block is shown in Fig. 2.

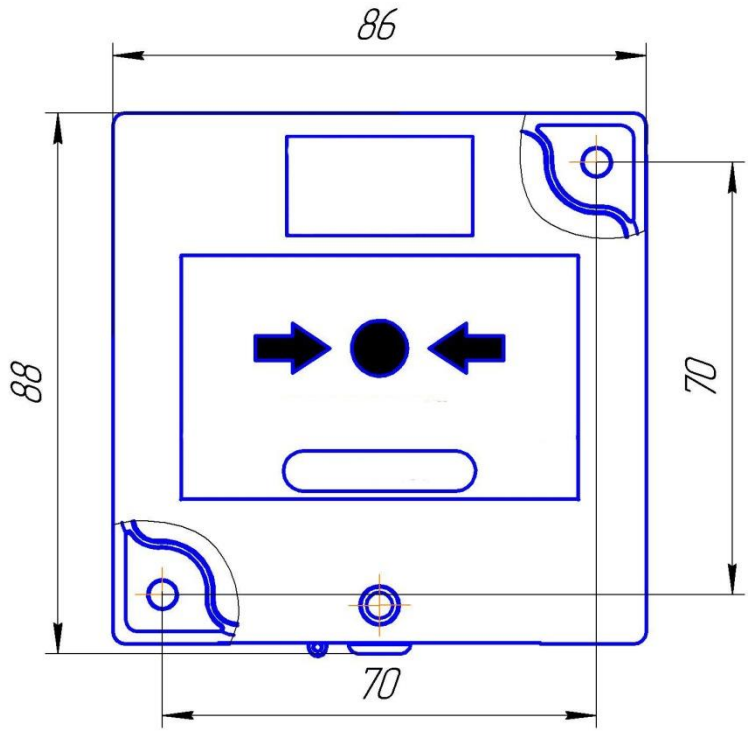


Fig. 1- Overall and mounting dimensions CV1513.

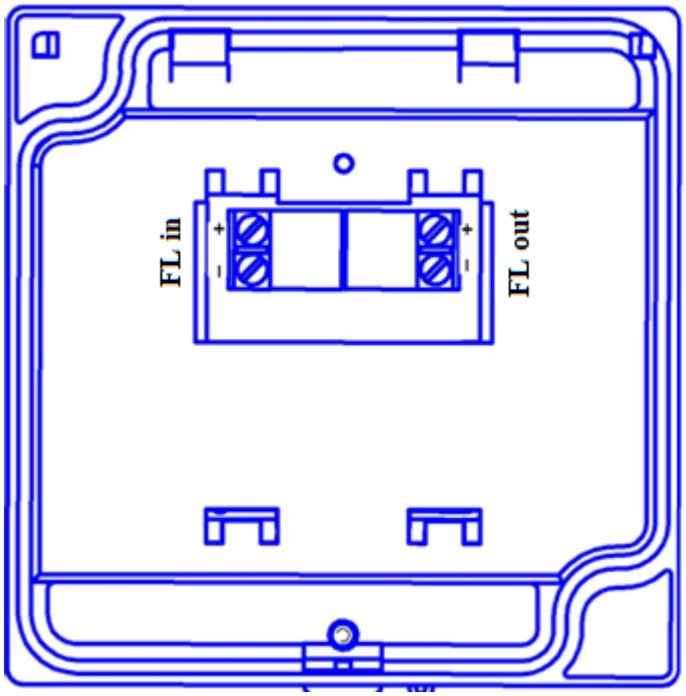


Fig. 2 - General view and arrangement of contacts on the block CV1513.

1.3.3. The scheme of detectors, inclusion in the ring address loop of the fire alarm of the fire alarm control and address device "Varta-Adres" is shown in Fig. 3.

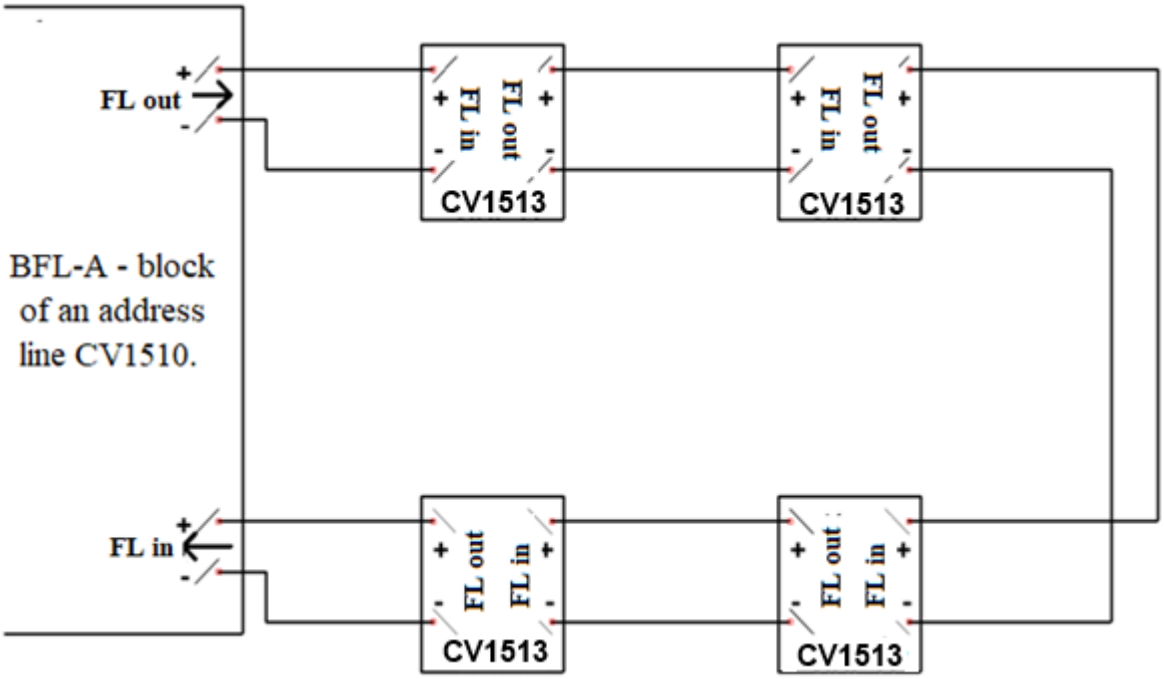


Fig. 3 - Scheme for switching on detectors

Allowed the inclusion of CV1511, CV1512, CV1513 in the loop in any combination and ratio, in the example, only CV1513 is specified.

2 SAFETY MEASURES

2.1 The design of the detector complies with the general safety requirements

2.2 The unit is designed to operate at a safety extra-low voltage and has neither external nor internal circuits that operate at a different voltage.

2.3 The design of the detector ensures its fire safety during operation.

2.4. The safety rules, when monitoring the parameters and operation of the unit, must comply with the requirements of the national rules for the technical operation of electrical installations of consumers and safety regulations for the operation of electrical installations of consumers.

2.5 Installation work with the detector may be carried out by an electric tool with an operating voltage not exceeding 42 V with a power of not more than 40 W, having a fault-free insulation of live circuits from the power tool body.

2.6 When installing, replacing or removing the detector, it is necessary to observe the rules of operation at height.

3 USE ON DESTINATION

3.1 Preparing the detector for operation

3.1.1 After receiving the detector it is necessary to unpack the package, check the presence of detectors, keys for setting the status of the standby mode, the passport and the operation manual.

3.1.2 If the detector has been exposed to negative temperatures before opening the package, keep it in the package at room temperature for at least four hours.

3.1.3 Perform an external inspection of the detector, make sure that there are no visible mechanical damages (cracks, chips, dents).

3.2. Installation procedure for the detector

3.2.1 When designing the installation and when operating the detector, it is necessary to be guided by national standards and norms.

3.2.2 The works on the installation of detectors must be carried out in accordance with the design documentation, standards, building codes and rules and in accordance with the operating documentation for the detectors.

3.2.3. The design documentation for the installation in which the detectors are applied must comply with national standards.

3.2.4 It is not recommended to install the detector in places where it is possible to separate gases, vapors and aerosols that can cause corrosion.

3.2.5 During repair work in the premises where the detectors are installed, they must be protected from building materials (whitewash, paint, cement dust, etc.).

3.2.6 Install the detector in the following sequence:

- mark the places of installation of dowels according to Fig. 1;
- in dowels drilled by marking, install dowels;
- fix the socket;
- connect the alarm loop to the corresponding contacts of the outlet, observing the polarity and direction of the FL in accordance with Fig. 3.

3.2.7 It is allowed to connect wires with nominal cross-section from 0.2 mm^2 to 1.5 mm^2 to the detector terminals. The total resistance of the loop without taking into account the remote elements is indicated in the operational documentation for C.I.A.

3.3. Order of activation and testing of the detector

3.3.1 Verify the correct installation of the entire fire alarm system for compliance with operational documentation for the system and its components.

3.3.2 Install the housing cover with the charging-return mechanism to the socket and screw the screw on the housing cover.

3.3.3 Bring the mechanism into standby mode by inserting the key into the holes at the bottom of the instrument cover and pressing it until it clicks ("ALARM" should disappear in the window and "NORM" should appear).

3.3.4. Apply voltage to FL from C.I.A. After 40 seconds after the power supply has been applied, the detector must go into standby mode.

3.3.5 Press the panel "→ ● ←" before switching ("ALARM" should appear in the window).

3.3.6 The detector should go into the "Fire" mode, the LED of the detector must be on continuously, and C.I.A. must receive and process the signal transmitted by the detector via FL.

3.3.7 Transfer the detector to the standby mode of operation by two operations - mechanical and software.

3.3.7.1 Mechanically - insert the key into the holes at the bottom of the instrument cover and press it until it clicks ("ALARM" should disappear in the window and "NORM" should appear).

3.3.7.2 Software - reset the general state of "Fire" or only triggered by a command with C.I.A., the right LED should go out.

4 MAINTENANCE

4.1 Maintenance of the detector is carried out in accordance with the national rules for the technical content of fire automation installations.