

**ADDRESSABLE MANUAL CALL POINT
DETECTO MNL100/ DETECTO MNL110**

Passport

AAZCh. 425211.003 PS



10206



EN 54

DSTU ISO 9001:2015

Serial number:

Firmware version:

This passport refers to addressable manual call points (further – AMCP) DETECTO MNL110 AAZCh.425211.003 (with short circuit isolator) and MNL100 AAZCh.425211.003-01 (without short circuit isolator) and contains information on the design, and operation rules of AMCP, which are used as part of addressable fire alarm systems, based on the fire alarm control panels Tiras PRIME A.

AMCP meets the requirements of DSTU EN54-11, and DSTU EN54-17 standards (DETECTO MNL110).

1 List of abbreviations

- SCI – short circuit isolator;
- FCP – Fire alarm control panel *Tiras PRIME A*;
- AFAS – addressable fire alarm system;
- AI – addressable interface;

2 Purpose

2.1 AMCP is intended for use in the AFAS to transmit fire alarm signals by manually pressing the button. AMCP has plastic housing.

3 Declarations of manufacturer

3.1 AMCP design meets the requirements of the quality management system, which contains the set of design rules for all its elements.

All components of AMCP are used as intended and under the conditions of their operation correspond to the environmental conditions outside the housing in accordance with class 3k5 IEC 60721-3-3.

4 Technical characteristics

4.1 The list of AMCP terminals and their functions is given in Table 1

Table 1

Terminal name	Functional
L+	Terminal for connection AI positive wire
L-	Terminal for connection AI negative wire -AMCP DETECTO MNL110 has two terminals with such name, divided by SCI; -In AMCP DETECTO MNL100 these terminals are connected to each other.

4.2 Technical features of AMCP are listed in table 2.

Table 2

Feature name	Value
General	
Dimensions WxHxD, mm	90 × 90 × 40
Net weight, kg	0,12
Enclosure protection degree	IP30
Meantime to failure, hours, not less	40 000
Average lifetime, years, not less	10
Time to detect faults, s, not more than	10
Power supply	
Supply voltage through AI, V	20 – 25
Maximum current consumption from AI DETECTO MNL110, standby mode/alarm mode, mA	0,12/0,32
Maximum current consumption from AI DETECTO MNL100, standby mode/alarm mode, mA	0,10/0,30
SCI (only for DETECTO MNL110)	
Maximum SCI opening voltage, V	15,0
Minimum SCI recovery voltage, V	4,2
Maximum current through SCI in the closed state, mA	65
Maximum SCI opening current, mA	75
Maximum leakage current through SCI (in the open state), mA	4,2
Maximum transient resistance of SCI in the closed state, Ohm	0,09

4.3 LED indicators are used to indicate the operation modes and AMCP status, combined with one light guide mounted in the cover (Fig. 2):

- blinking green one time in four seconds – the indication of the standby mode;
- blinking green with an interval of 0.5 s (for not more than 4 s) – the indication of the AMCP registration process in AI;
- blinking red with a period of 0.5 s – the indication of fire alarm mode;
- double blinking red – the indication of the fault status;
- blinking green and red alternately - AMCP is marked for visual search in a zone.

5 Connection

5.1 To connect AMCP to AFAS, see Figure 1. To fix AMCP on a working surface and connect AI, open the cover on the housing using a special key (fig. 3).

Figure 1 shows the location of the terminals for connecting AI in both versions of the AMCP. Negative AI wires are connected to the terminals "L-", and positive AI wires are connected to the terminal "L+" (positive AI wires are the AI wires connected to terminals L1-L4 of the FCP, and negative AI wires are the AI wires connected to terminals G1-G4 of the FCP).

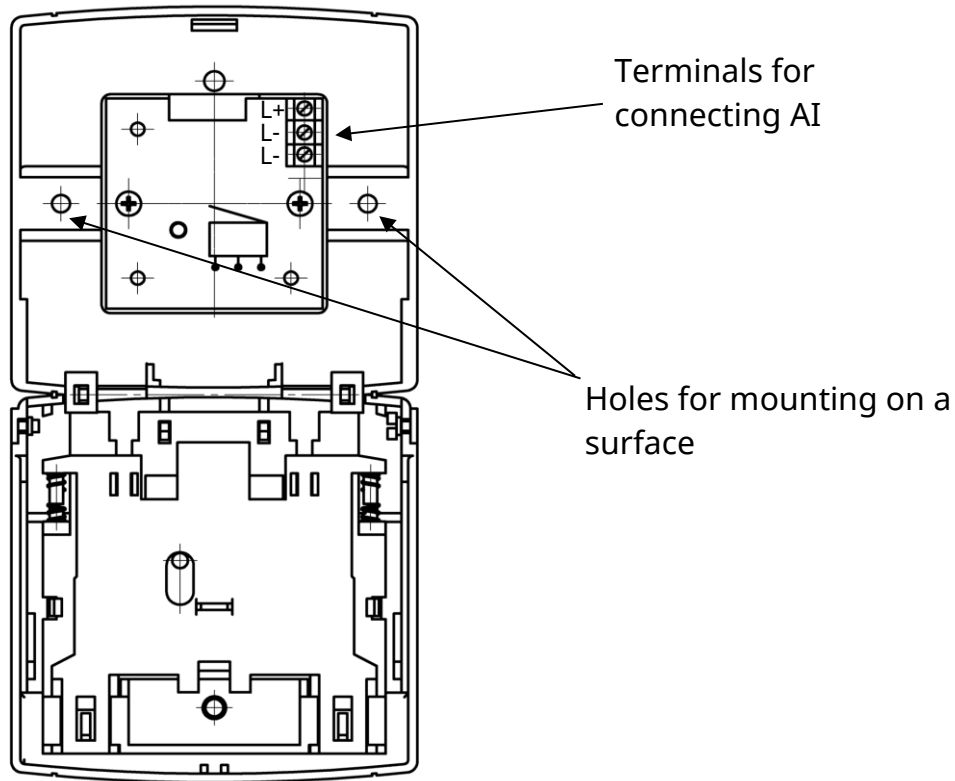


Figure 1 - AMCP mounting and terminals

5.2 The wires laid inside the housing must not interfere with free lid closing and the operation of the button mechanism.

5.3 Wires can be connected to the AMCP terminals only when there is no voltage on the AI.

6 Settings

6.1. When the supply voltage appears in the AI on the connected AMCP, the automatic indication of registration is switched on (see item 4.3). Then AMCP switches to the standby mode if there are no conditions for the formation of a fault (for example, the SCI operation).

AMCP is registered in a zone according to the FCP operation manual.

7 Operation

The AMCP indicator blinks green in the standby mode. To switch the AMCP to fire alarm mode, first hit the safety cover (Fig. 2a) with your hand to open it, and then press the "Press here" button (Fig. 2b). The color of the arrows on both sides of the button should change to red, the AMCP indicator should flash red. To return the AMCP to the standby mode, do the following:

- close the safety cover back;
- insert the key (Fig. 3) into the hole in the lower part of the AMCP housing and press it. The arrows on the cover should change color from red to black;
- reset the fire alarm message on the FCP (according to the FCP operation manual).

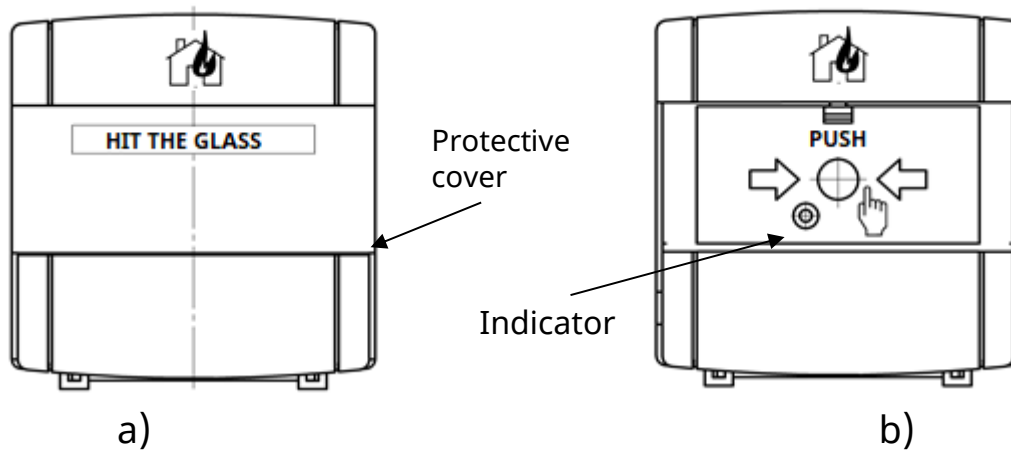


Figure 2 - The AMCP appearance

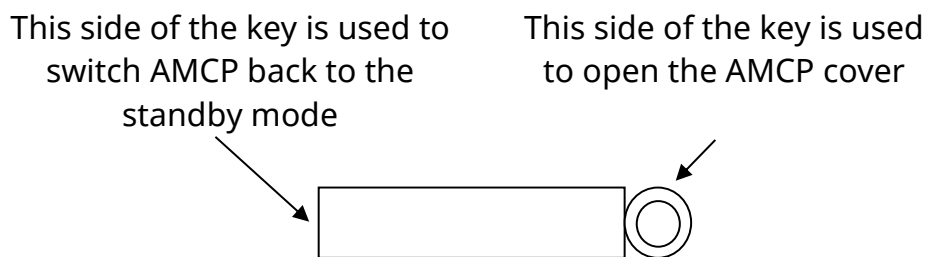


Figure 3 - AMCP service key

8 Packaging

8.1 After AMCP unpacking do the following:

- visually inspect the device and make sure there is no mechanical damage on it;
- check the delivery set according to table 3.

Table 3

Name	Code	Number	Note
AMCP DETECTO MNL110 (MNL100)	AAZCh.425211.003 (-01)	1	
Passport	AAZCh.425211.003 PS	1	One passport for each 20 AMCP
Key	AAZCh.741315.002	1	

9 Operation, storage, and transportation conditions

The AMCP is intended for continuous 24h operation in the premises under regulated climatic conditions. Operating temperature range: - 10°C .. 55°C.

Packaged AMCPs are stored in warehouses under the following conditions: air temperature range: - 50°C .. 55°C, relative humidity must not exceed 98% at a temperature of 35°C. There should be no aggressive impurities in the air causing corrosion in the premise where the AMCPs are stored.

- 3) damage caused by other objects, liquids, insects, etc. getting inside the AMCP;
- 4) mechanical damage to the AMCP components (chips, dents, cracks, broken contact connectors, etc.);
- 5) damage caused by unauthorized repair;
- 6) damage caused by the violation of transportation, storage, and operation rules;
- 7) change, delete, erase or damage the device serial number (or stickers with serial numbers on the AMCP).

13 Information on repair

The AMCP is repaired by the manufacturer. AMCPs for which the warranty period has not expired and which have been operated in accordance with the operating documents for the device are repaired free of charge. If you want to repair, AMCP, send it to the manufacturer with a document indicating the date of the sale, and a letter describing the malfunction, the place of AMCP operation, and the contact phone number of the person for repair

14 Information on declarations of conformity to technical regulations and certificates

AMCP DETECTO MNL100/MNL110 meets the requirements of mandatory technical regulations, namely:

- Technical regulations on electromagnetic compatibility of equipment;
- Technical regulations restricting the use of certain hazardous substances in electrical and electronic equipment.

Certificate of compliance with the requirements of DSTU EN 54 series standards issued by the State Certification Center of the SES of Ukraine.

The Quality Management System of Tiras-12 LTD is certified in accordance with DSTU ISO 9001: 2015.

The full text of declarations of compliance with technical regulations and certificates are available on the website <https://tiras.technology>.

15 Disposal

After the expiry of the service life of the detector its utilization is carried out in accordance with the current legislation, separate from household waste.



In accordance with the EU Directive 2012/19/EU on waste electrical and electronic equipment, the disposal of detector should be done separately from household waste. To dispose of the detector, it should be delivered to a point of sale or a local processing point.

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tiras.technology

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