# Input-Output Device
TYPE **7203M**
## 1 input / 1 output
Instruction Manual 02-7203M-02-22

CE 1922

**General Description**

Input-Output device 7203M (fig.1) is designated to produce and send an electrical signal to various devices in case of occured events and recording external impacts, typical for a fire condition events. Device is compatible with addressable fire control panels 7000M, supplementing the possibilities of the addressable system.

The device consists of a printed circuit board with elements, mounted on a plastic base and closed by a cover .The base has an implemented terminal bus (pos.6 and pos.5, fig.1) through which cabels connect the addressable loop, the power supply and etc.
Communication between Control Panel 7000M and the input-output device is realized by means of the addressable loop through a specialized protocol for data exchanging UniTALK .
Two LED indicators are built-in on the device PCB , illuminated in yellow (pos.3 fig.1) and red light (pos.1 fig.1), providing device status information.

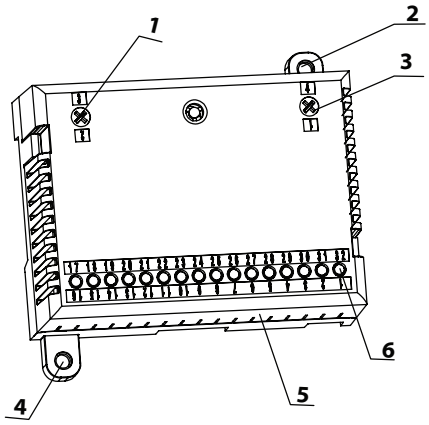


Fig.1 - Picture of input/output module

**Technical Data**

| | |
|---|---|
| Addressable loop: | |
| - supply voltage from addressable loop | (18÷30)Vdc |
| - current consumption in duty mode | < 290μA+/-30 |
| - current consumption in fire mode | (2±1)mA |
| Input: | 1 pc. |
| - "Fault condition" - interruption | $R_{line}$≥15kΩ +/- 10% |
| - "Fault condition" - short circuit | $R_{line}$≤500Ω +/- 10% |
| - "Duty mode" range | 5,9kΩ≤$R_{line}$<14kΩ +/- 10% |
| - "Activated input" range | 520Ω<$R_{line}$<5,9kΩ +/- 10% |
| Output: Depending on the configuration and the power supply (Relay or monitored) | 1 pc. |
| • Relay | |
| - type | potential free, switching functions |
| - electrical specifications | 30V DC /1A, 125V AC/0,5A |
| or | |
| • Monitored | |
| - EOL | 5,6kΩ |
| - type | potential |
| - electrical specification | (18÷30)V DC |
| - peak activation current with internal power supply | 80mA *total loop consumation 300mA/24VDC |
| - peak activation current with external power supply | 30V DC/1A |
| Degree of protection: | IP 30 |
| Operating temperature range | from minus 5°C to 40°C |
| Relative humidity resiatance (no condensation) | (95±3) % at 40°C |
| Dimensions | (90x66x22) mm |
| Weight | 0.078 kg |

*02/02.22*

**Installation**

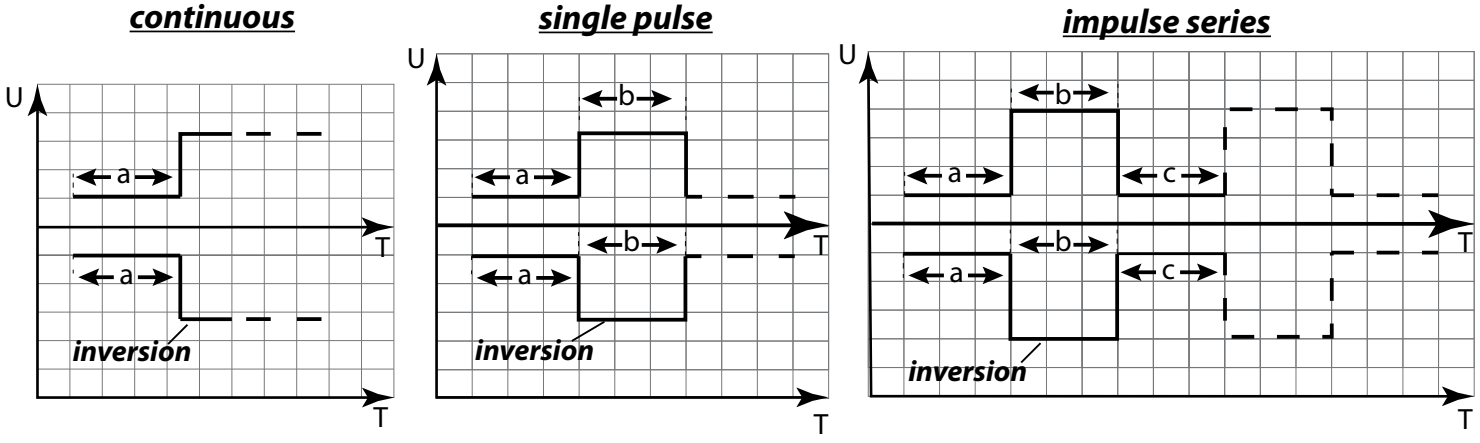
LED indication (pos.1 и 3, fig.1) is providing information for the device condition/status as follows:
- Duty Mode – flashes with discontinuous red light on every 12 seconds;
- Activated output – the red LED lights continuously;
- Activated input– the red LED lights continuously;
- Fault condition (short-circuit or interruption in an input or an output ) –
the yellow LED lights continuously;
- Fault condition (activated isolator) - red LED flashing briefly in 0,5 second;
- Fault condition (no power to the monitored output (when the supply voltage monitoring is set)
the yellow LED lights continuously;

**1. Mechanical installation**

1.1 Unpack the 7203M IO module /fig. 3, step 1/
1.2 Remove the decorative plastic cover in front of the necessary terminals /fig. 3, step 2/
1.3 7203M IO module need to be mounted on the wall using screw /fig. 3, step 3.1/ or
a locking hinge DIN must be placed first and then the 7203M IO module can be mounted on a DIN rail with 35mm width /fig. 3, step 3.2/. The elastic element is part of the package bag.
1.4 The 7203M IO module need to be installed in accordance to one of the connection diagram described in point 3.2 .

**2. Configuring of the module operation mode**

For appropriate configuration of device please follow 7000M instruction manual. Device automatically receives its configuration during its initialization by addressable fire alarm panel 7000M,
(fig.3 step 4) configuration set up of 7000 panel is applicable only using software configuration tool for 7000M(fig.3 step. 5)

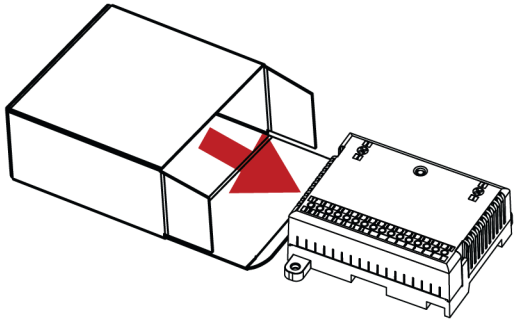



| | |
|---|---|
| a - delayed start | 0-480 sec. |
| b - duration | 1-60 sec. |
| c - pause | 1-60 sec. |

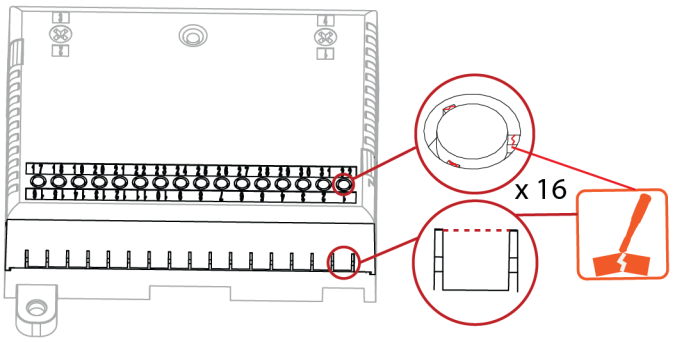
Fig. 2 - Output configuration modes



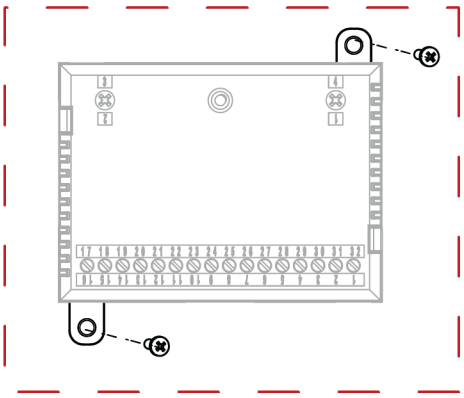
Manufacturer: UniPOS Ltd., 47 San Stefano Street, Pleven 5800, Bulgaria, **http://www.unipos-bg.com**



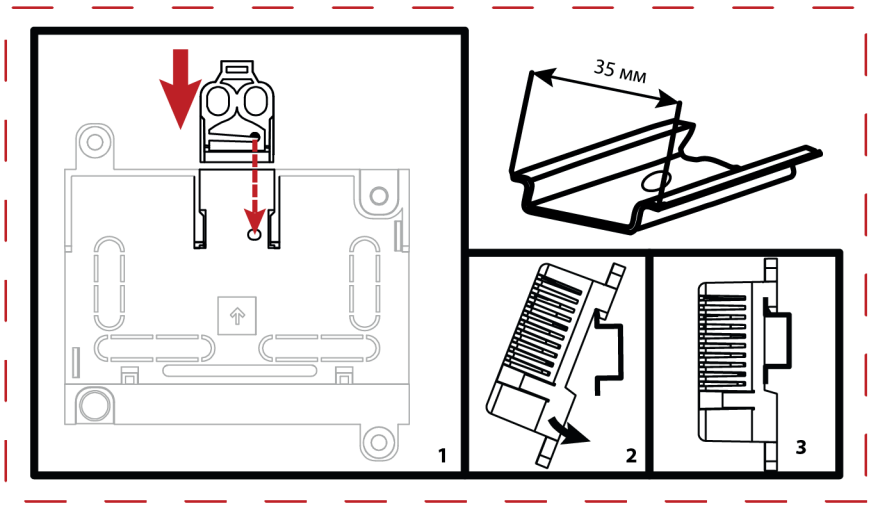
1



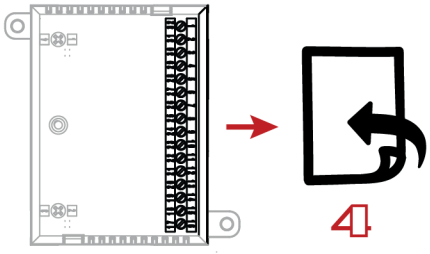

2



3.1




3.2



4


5

www.unipos-bg.com

**Fig. 3**

## 3. Electrical installation

The cabels are assigned through terminal bus (pos.6 and 5, fig.1).

3.1 Terminal bus

3.1.1 Addressable loop

- Terminal 1– shield of the addressable loop;
- Terminal 2 – "+" of the addressable loop;
- Terminal 3 – "-" of the addressable loop;
- Terminal 4– "-" of the addressable loop;
- Terminal 5 – "+" of the addressable loop;
- Terminal 6 – shield of the addressable loop;

Note: It is not necessary to strictly follow the conditioned beginning and end of addressable loop.
Polarity is mandatory when connecting the device.

3.1.2 Input

- Terminal 7 – input "IN";
- Terminal 8 – input "IN"

Note: The input line is balanced and checked for interruption.

3.1.2.1 Input is configured to be activated with 10 kohms connected in paralel
and wires are connected in according to fig.4.

3.1.3 Output type connections.

Terminals from 9 to15 depends from configurating of the type output
( fig.4and fig.5 or 6 ).

3.1.3.1 Output, configured as relay with Non-potential contacts

- Terminal 9 - do not use;
- Terminal 10 - "C" - common contact of the relay;
- Terminal 11 - "NC" - normally closed contact of the relay;
- Terminal 12 - do not use;
- Terminal 13 - do not use;
- Terminal 14 - "NO" - normally open contact of the relay;
- Terminal 15 - do not use;
- Terminal 16 - do not use;

3.1.3.2 Output, configured as monitored with external power supply

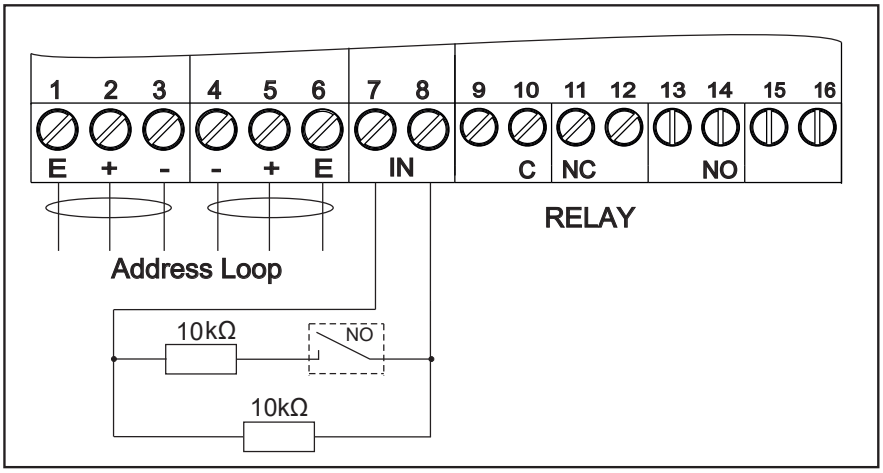
- Terminal 9 - "- Out" - negative terminal of monitored output;
- Terminal 10 - "+Out" - positive terminal of monitored output;
- Terminal 11 - it is required to make short circuit between terminal 12;
- Terminal 13 - do not use;
- Terminal 14 - "+" - positive terminal for assignment of external power supply
- Terminal 15 - "-" - negative terminal for assignment of external power supply
- Terminal 16 - do not use;

3.1.3.3 Output, configured as monitored with internal power supply

- Terminal 9 - "- Out" - negative terminal of monitored output;
- Terminal 10 - "+Out" - positive terminal of monitored output;
- Terminal 11 - it is required to make short circuit between terminal 12;
- Terminal 13 - it is required to make short circuit between terminal 14;
- Terminal 15 - it is required to make short circuit between terminal 16;

3.2. Wiring diagrams

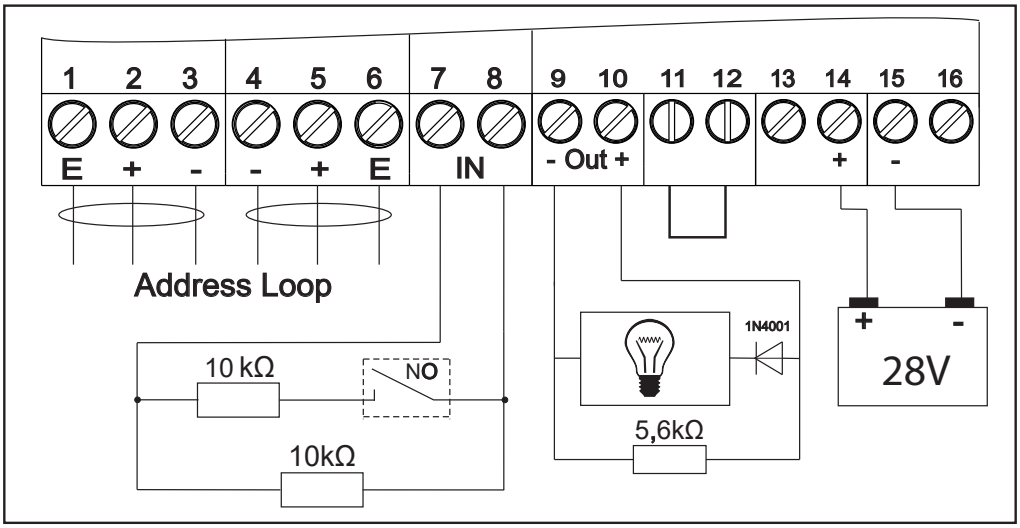
3.2.1. Usage as a relay (dry contact) and/or monitored input - check for short circuit




managing of external device through relay with non-potential contacts

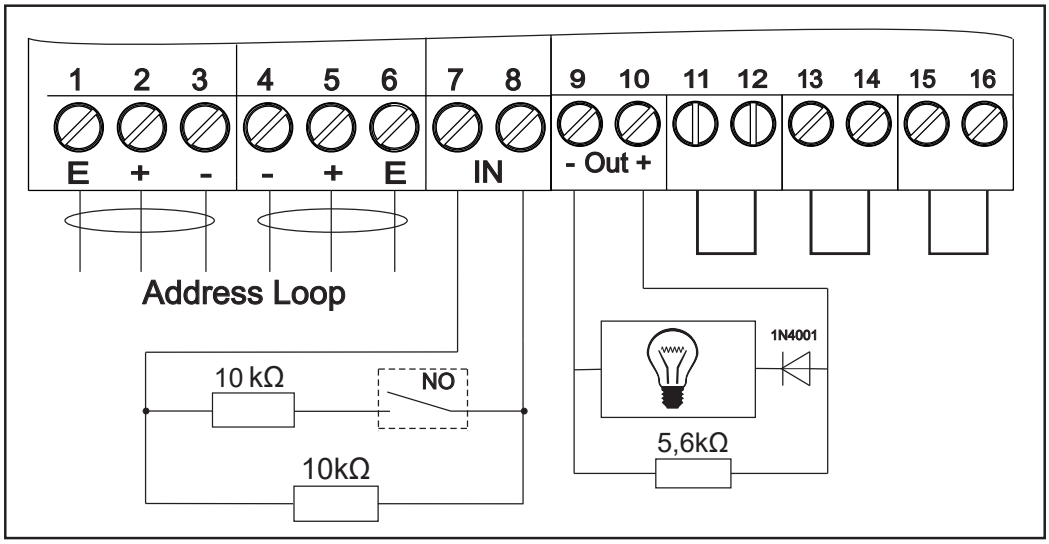
Fig.4

3.2.2 Usage as a monitored output and/or monitored input




managing of external device through monitored output (with external power supply)

Fig.5




managing of external device through monitored output (with internal power supply)

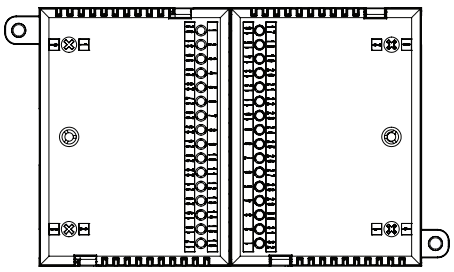
Fig.6

**Package includes:**

| | |
|---|---|
| Input-Output device 7203M (1input/1output) | - 1 pc. |
| leaflet with the installation steps | - 1 pc. |
| Resistor 5,6 kΩ for controllable output control and input activation | - 1 pc. |
| Resistor 10 kΩ for input control | - 2 pc. |
| DIN locking hinge | - 1 pc. |
| Diode 1N4001 | - 1 pc. |

**Accessory - installation of a modular box/cabinet (additional order)**

For the In-Out module 7203M IO type is available accessory - a modular box consisting of the module cabinet. The accessory is used to bind (to cover) the cables to the connection terminals.



**Warranty**

The warranty period is 36 months from the date of sale, providing that the installation requirements have been observed.

The manufacturer does not bear warranty liabilities for damages caused through accidental mechanical damage, misuse, adaptation or modification after production.

CE

**1922**

UniPOS Ltd., 47 San Stefano Str., Pleven 5800, Bulgaria
Declaration of Performance
No: 201/01.11.2021
EN54-17 2005/AC 2007/EN 54-18 2005/ AC 2007
7203M
http://unipos-bg.com/en/certificates/dop/
Fire detection and fire alarm systems
installed in buildings.
Input/output devices

*UniPOS wishes you a successful work !*