

INPUT/OUTPUT UNIT ADDRESSABLE

TYPE FD 7203 3 INPUTS / 6 OUTPUTS INSTRUCTION MANUAL 04-7203-12-10



GENERAL DESCRIPTION

The input/output unit is designed to control and receive information from external devices for the fire alarm system IFS 7000 in case of detecting fire conditions.

The input/output unit (fig.1) consists of a printed circuit board (pos.2) and an unit carrier (pos.4), fixed in a plastic box with bottom (pos.1) and a cover (pos.3). The terminals for connecting the signal loop SL (pos.3), the power loop PL (pos.4), potential free relay outputs OUT2, OUT3, OUT4, OUT5-1, OUT5-2 (pos.1), the controllable output **OUT1** (pos.6), the inputs separated by means of electroplating **IN1**, **IN2**, **IN3** (pos.2) and constant current supply output **24VDC** (pos.7) are located on the printed circuit board (fig. 2). Outputs OUT5-1 and OUT5-2 are switched over simultaneously and are controlled by one relay. The unit is completed by terminating resistor R (pos.5) with value 5x6.

The communication between the Fire Control Panel IFS 7002 and the input/output unit is completed

via the signal loop by the specialized data exchange protocol UniTALK. The input/output unit is power supplied simultaneously by the power and the signal loops. Two built-in isolators are provided for short circuit protection - one on the signal loop and one on the power loop.

Both LED indicators (fig.1,pos.5) provide information for the current status:

- Duty mode - red and yellow LEDs flash briefly every 16s;

- -Activated controllable output the red LED produces continuous light, the yellow LED is not lit;
 -Activated relay output the red LED flashes briefly every 1s; the yellow LED is not lit;
 -Activated input the red LED flashes briefly every 2s, the yellow LED is not lit;

- Fault condition (activated isolator on the signal loop) the yellow LED flashes briefly every 1s, the
- Fault condition (activated isolator on the power loop) the yellow LED flashes briefly every 2s, the red LED is not lit:
- Fault condition (short circuit or interruption of the controllable output) the yellow LED produces continues light, the red LED is not lit.

(15-30)V DC

(12-30)V DC

300 µA

2 mA

3 mA

up to 1 A

200 mA

4 pcs

ìΑ

3 pcs

(11-30)V DC

(12-30)V DC

two-wire, shielded

potential free, switching over

1A/30V DC 0,5A/125V AC

potential, separated by electroplating

TECHNICAL DATA:

Supply voltage:

- signal loop power loop

Current consumption in Duty mode:
- signal loop

- power loop

Current consumption in Activated state:

- signal loop - power loop Controllable output:

voltage

- maximum current Relay outputs:

- electrical parameters of the

contact system

Constant current supply output:

- voltage - maximum current

Inputs:

- type

voltage of activating/input current
maximum voltage/input current 5V DC / 3 mA 30V DC / 15 mA Cross section of connecting wires (0,8-2,5) mm²

Type of the connecting cables:
- of the signal loop

two-wire IP 50 - of the power loop Degree of protection

minus 10°C - plus 55°C (92±3)% at 40°C Operational temperature range Relative humidity resistance 120x164x74 mm Dimensions Weight 0,250 kg

INSTALLATION

Install it according to fig.1 in the following sequence:

- 1. Dismantle the input/output unit by unscrewing screws pos.7 and pos.6.
- 2. Installation holes and connecting wires holes are drilled on the designated places on the bottom.

 3. Fix the bottom on the desired place by means of pins and screws. The connecting wires are threaded
- in advance in the box.
- 4. Install the unit carrier to the bottom by using screws pos.6.
- 5. The electrical connection is done according to fig. 3, where "A" is an external device controlled by means of potential free contact, "B" - by means of potential contact, and "C" transmits signal along input IN1 via potential contact. The terminating resistor R is connected to the terminals of the last device in the line when connecting external devices to the controllable output **OUT1**. It is not necessary to take into consideration the conditional beginnings and ends of the loops. It is recommended cable shoes to be

6. Place the cover to the bottom by using screws pos.7.

TESTING

The input/output unit is tested after installation as a part of the site's fire alarm system or with maintenance activities, following this order:

- 1. The outputs of the input/output unit are tested by the Fire Control Panel. They should be activated and the respective indication to be on.
- 2. The external devices connected to the inputs of the input/output unit are activated consecutively. The respective indication should be on.

SERVICE SCHEDULE

It is done by authorized personnel and includes the following activities:

.Inspection for visible physical damage

- monthly 2. Testing in real conditions - monthly

WARRANTY

The warrant period is 36 months from the date of sale.

The manufacturer guarantees the normal operation of the unit providing that the requirements set herein have been observed.

The manufacturer does not bear warranty liabilities for damages caused through accidental mechanical damage, misuse, adaptation or modification after production. The manufacturer bears warranty liabilities for damages in the unit caused through manufacturer's fault only.

