Server Zones Setup in IFS7002-4

1. IFS7002-4 Panel Summary

IFS7002-4 loops panel specification:

- 2 panels - IFS7002-2 loops communicating through CAN interface.
- Built-in default CAN parameters for correct communication between the TOP ("Master") panel and BOTTOM ("Slave") panel. (table 1)
- The LCD display is connected to the TOP/Master panel

CAN Local Parameters	TOP panel	BOTTOM panel
Address	1	101
Priority communic. level	Master	Slave
CAN Rate	80 kbits/s	80 kbits/s
CAN Remote Object Parameters	**TOP panel**	**BOTTOM panel**
Priority communic. level	Slave	Master
CAN Address	101	1
CAN Communication Port	CAN 1	CAN 1

Table 1
IFS7002-4 important CAN parameters

IFS7002-4 panel Start-up steps:

* Master Panel:
  - Cable installation check procedure Loop 1 – menu "Setup -> Loops -> Loop1 -> Check"
  - Cable installation check procedure Loop 2 – menu "Setup -> Loops -> Loop2 -> Check"
  - Automatic Addressing Loop 1 & Loop 2 – menu "Setup ->Initialization-> Clean Initialization"
  - Addressing Check procedure – menu "Setup -> Initialization -> Check"
* Slave Panel:
  - Select remote panel – menu "Lists -> Select Local/Remote panel"
  - Cable installation check procedure Loop 1 – menu "Setup -> Loops -> Loop1 -> Check"
  - Cable installation check procedure Loop 2 – menu "Setup -> Loops -> Loop2 -> Check"
  - Automatic Addressing Loop1 & Loop 2 -"Setup -> Initialization-> Clean Initialization"
  - Addressing Check procedure – menu "Setup -> Initialization -> Check"

2. Server zones

When the installer finishes the start-up steps described in point 1, next step is the fire detectors' zoning procedure (Panel Addr.#1 Zone 1 – Zone 3, Panel Addr.#101 Zone 1, Zone 2 Example page 9):

- Assign the panel Addr. #1 local fire detectors to different project zones. From menu "Setup -> Zones -> Devices -> Add address or Add address range" (fig.1)
- Program the fire phase 1 outputs and fire phase 2 outputs for each zone. From menu "Setup -> Zones -> Zone X -> Fire Phase 1 Outputs or Fire Phase 2 Outputs" (fig.2)
- Choose the remote panel form menu "Lists -> Select Local/Remote panel".
- Assign the panel Addr. #101 local fire detectors to different project zones.
  From menu "Setup -> Zones -> Devices -> Add address or Add address range". (fig.1)
- Program the fire phase 1 outputs and fire phase 2 outputs for each zone. From menu "Setup -> Zones -> Zone X -> Fire Phase 1 Outputs or Fire Phase 2 Outputs" (fig.2)

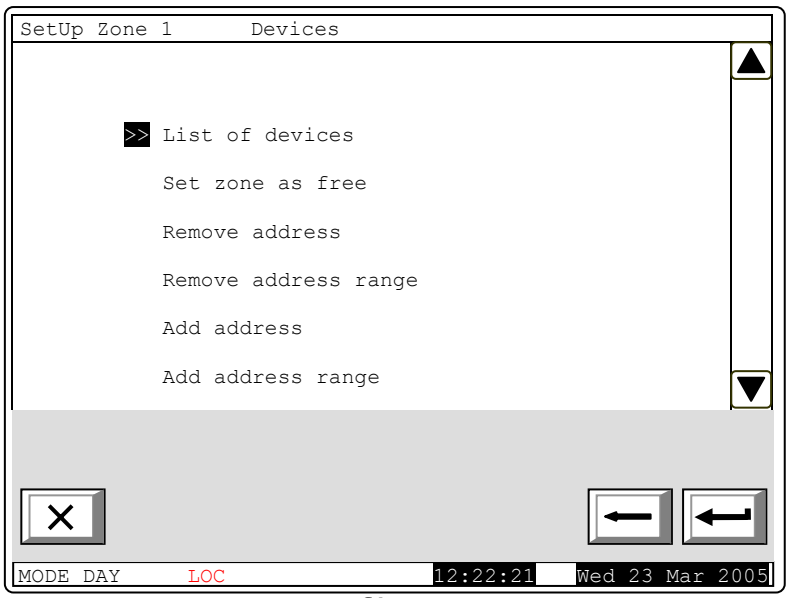


fig.1
Devices submenus

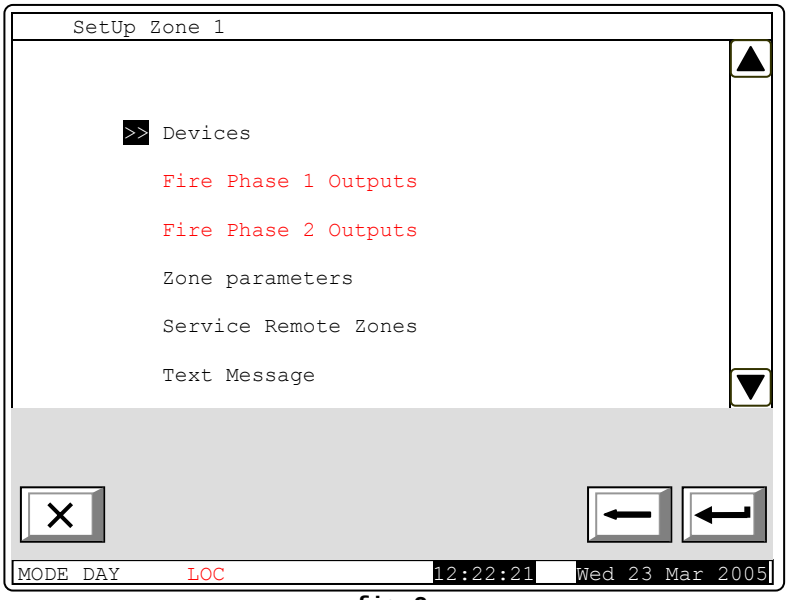


fig.2
Zones submenus

After finishing the fire detectors' zoning procedure described above we come to two problems:

"How to make Fire detectors from Panel #101 to activate programmable outputs of Panel #1?"

and

"How to make Fire detectors from Panel #1 to activate programmable outputs of Panel #101?"

We will discuss the procedures based on the example from page 9.

"How to make Fire detectors from Panel Addr. #1 to activate programmable outputs of Panel Addr. #101?"

- We are now in the Local panel Addr. #1. Go to the "Setup -> Zone" menu and create a new zone – Zone 4 ("Server Zone#4" example page 9)

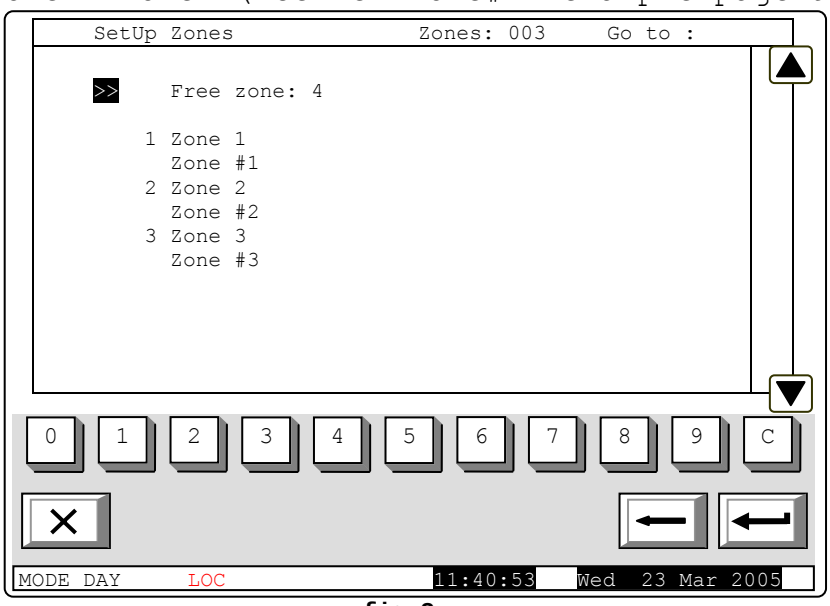


fig.3

- In the created new zone (name “Server Zone #4”) we have submenu “Remote Fire Server”

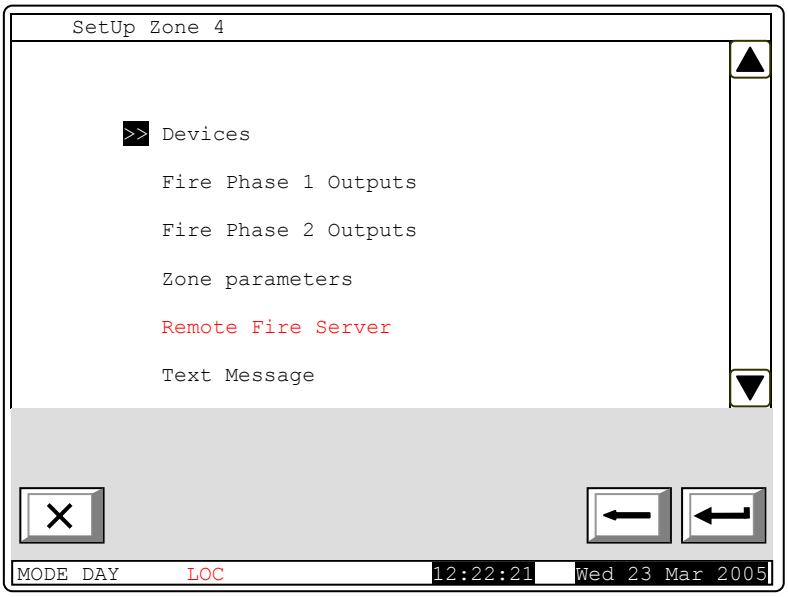


fig.4

- Go to the Remote Fire Server’s submenu “Add Panel”

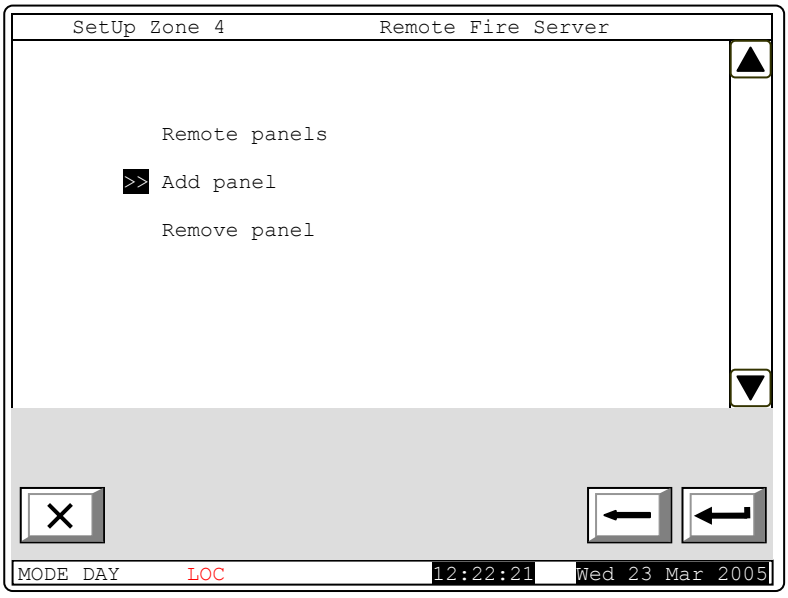


fig.5

- Point to the desired panel from the list with "Remote panels NOT to zone" and press 

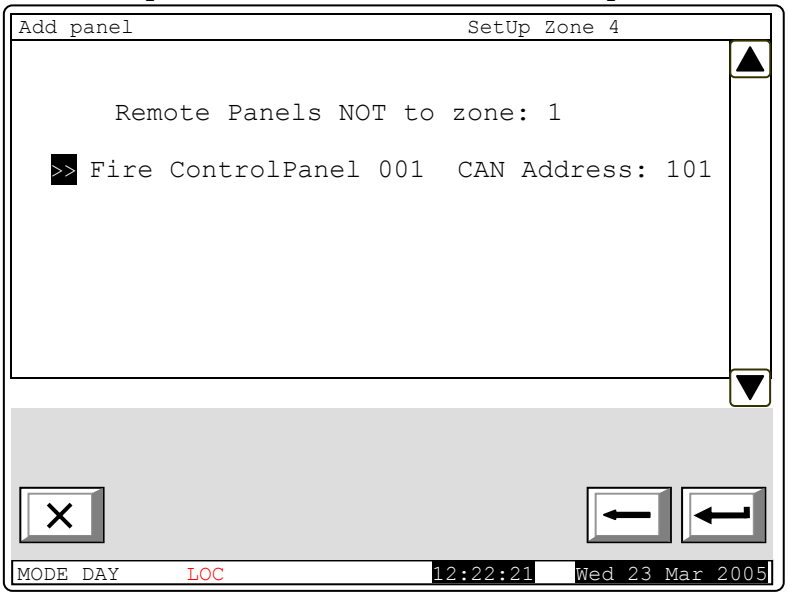


fig.6

- Step back and go to the main zone setup menu (fig. 4)
- Program the outputs fire phase 1 and fire phase 2 - the outputs you need to be activated from the Remote panel Addr. #101

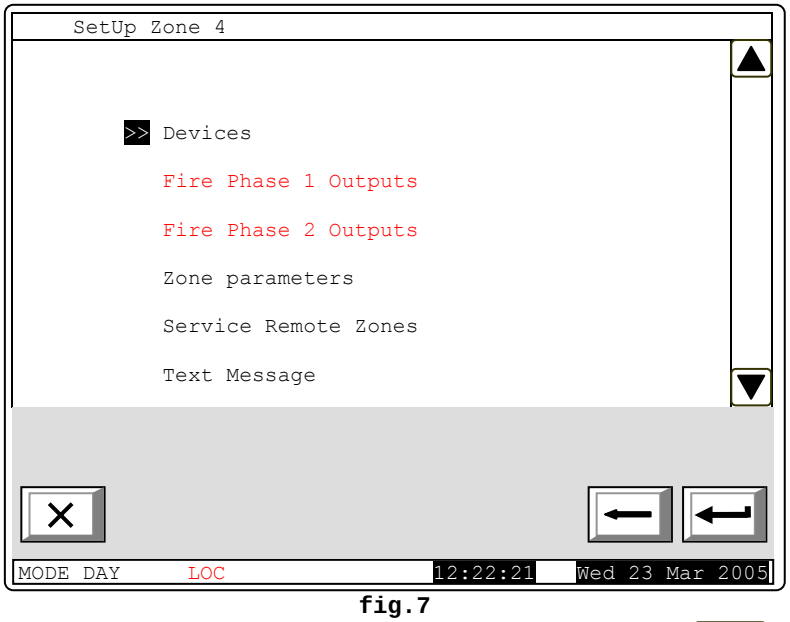


fig.7

- Go back to duty mode pressing button 

- Choose the remote panel #101 from menu "Lists ->Select Local/Remote panel"

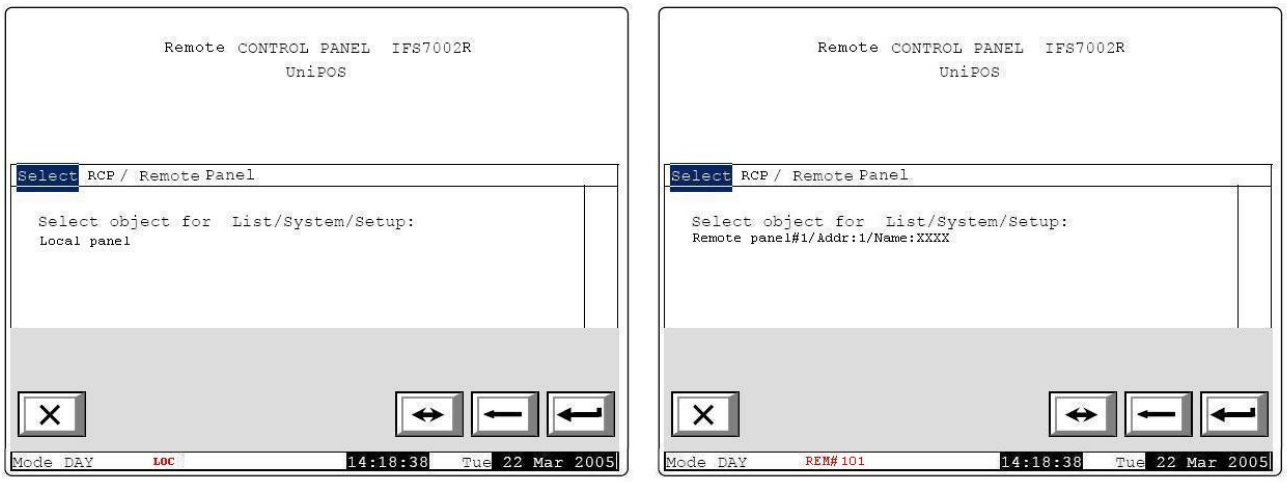


fig.8

As you can see from the TAB of the panel, the "panel indication" changes from "LOC" to "REM#101"

- Go to the "Setup -> Zones" menu and choose one of the already created zones with assigned detectors (Zone #1 or Zone #2 – example page 9).

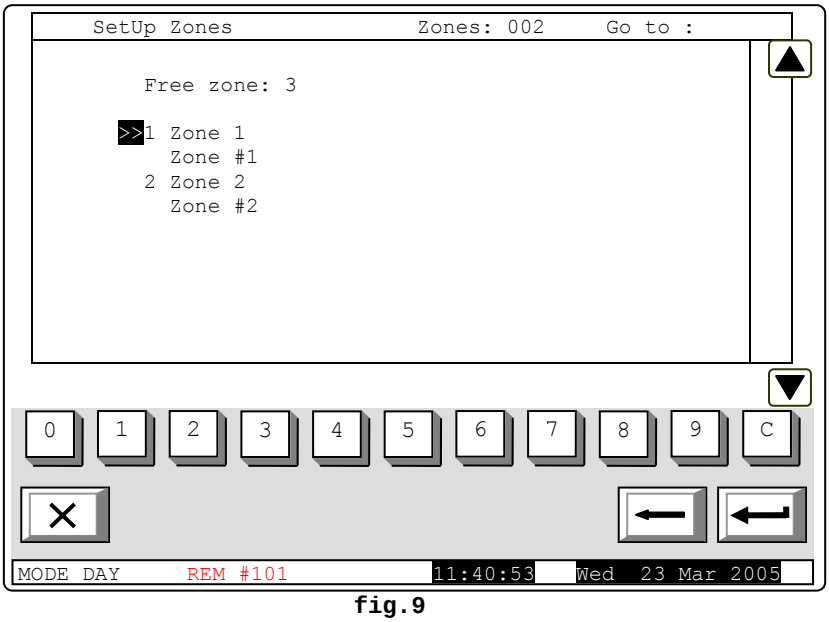


fig.9

- Go to submenu "Remote Fire Server" of the already created zones ("Zone 1").

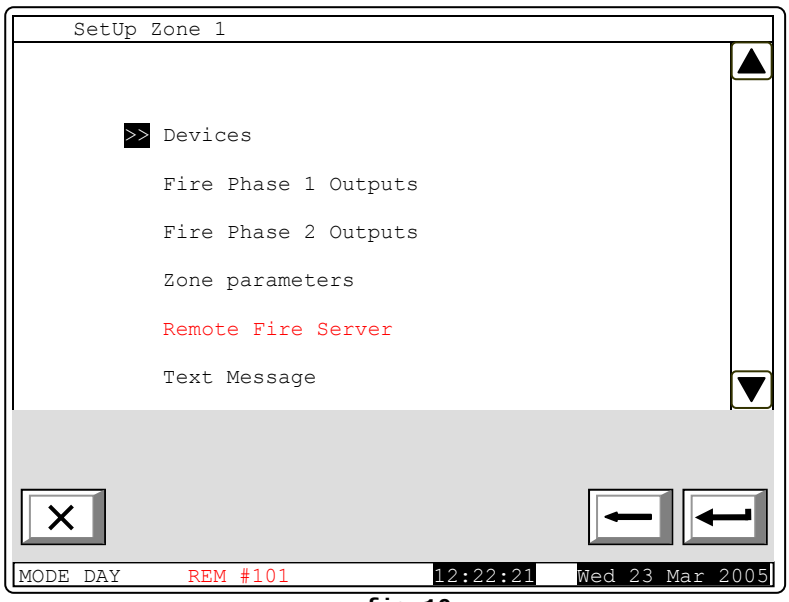


fig.10

- From menu "Add Panel" and the list of "Remote panels NOT to zone" I have to choose the panel with the server zone (Address #1).

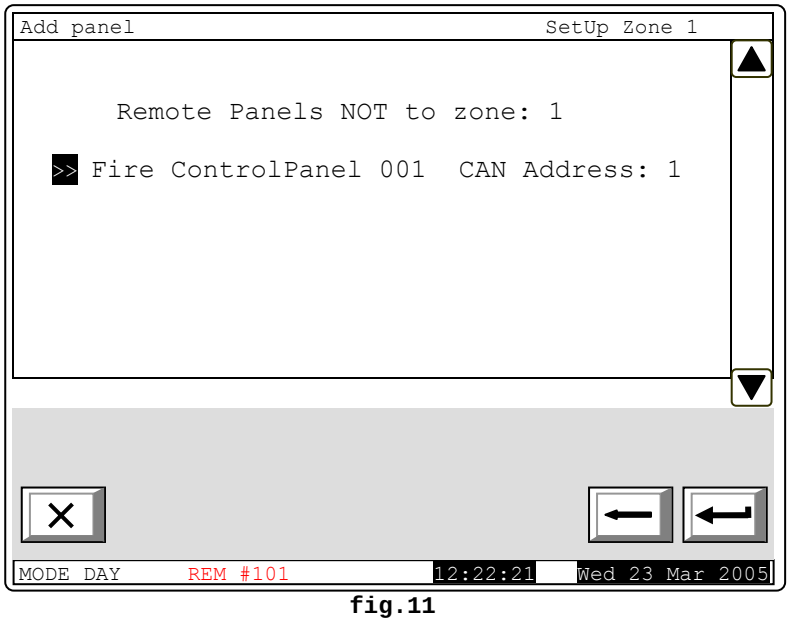


fig.11

- Go one step back and choose menu "Remote panels". From the list "Total remote panels to zone" I choose the already added panel Addr. #1

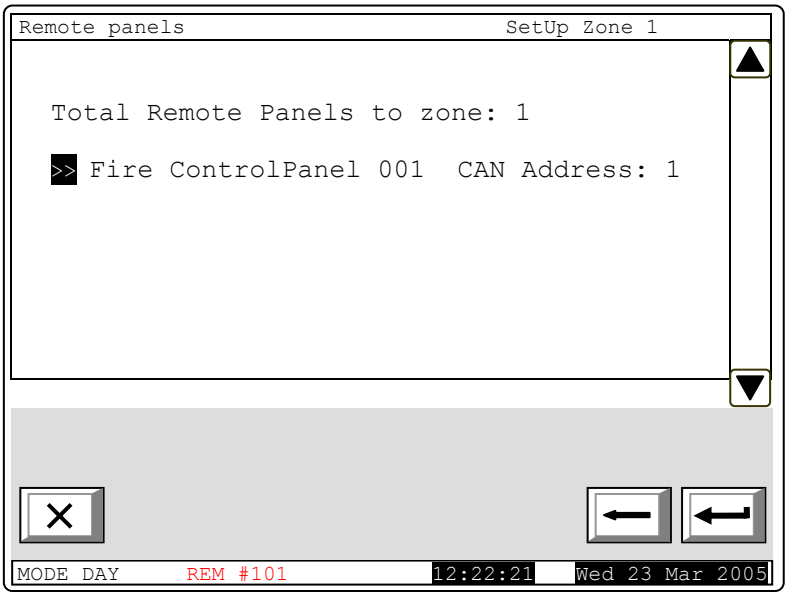


fig.12

- In the list of parameters I have to edit the "Server zone in remote panel: ***N# of server zone***". I have to choose the number of the server zone in the remote panel Address #1 (in the example from page 9 it is zone #4)

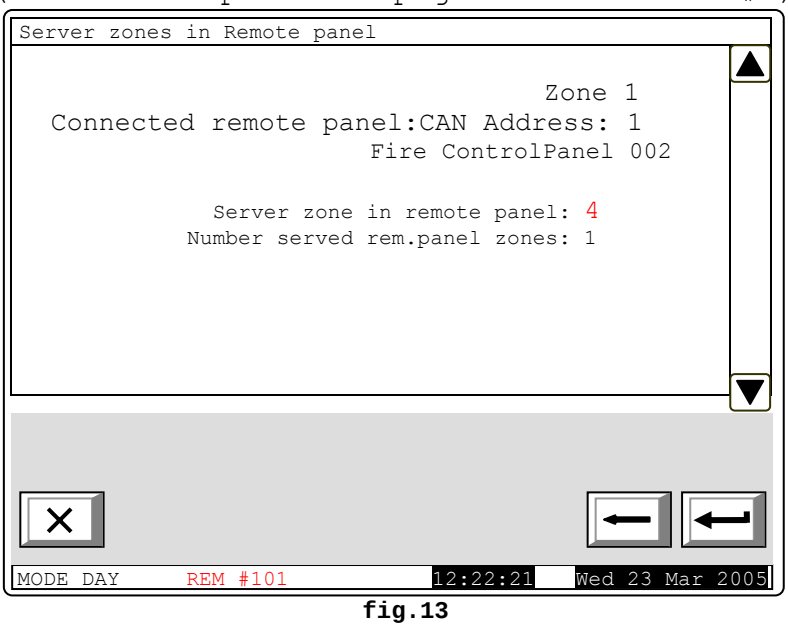


fig.13

- Go back to duty mode pressing button 

- Choose back the **Local panel** #1 from menu "Lists ->Select Local/Remote panel"

=

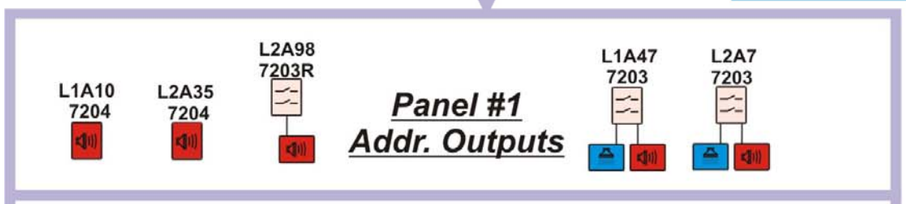
+

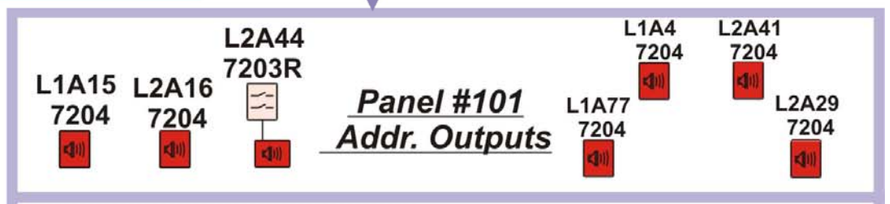
CAN Local Parameters: ***(TOP)***
Local Address: 1
Communication priority level: Master

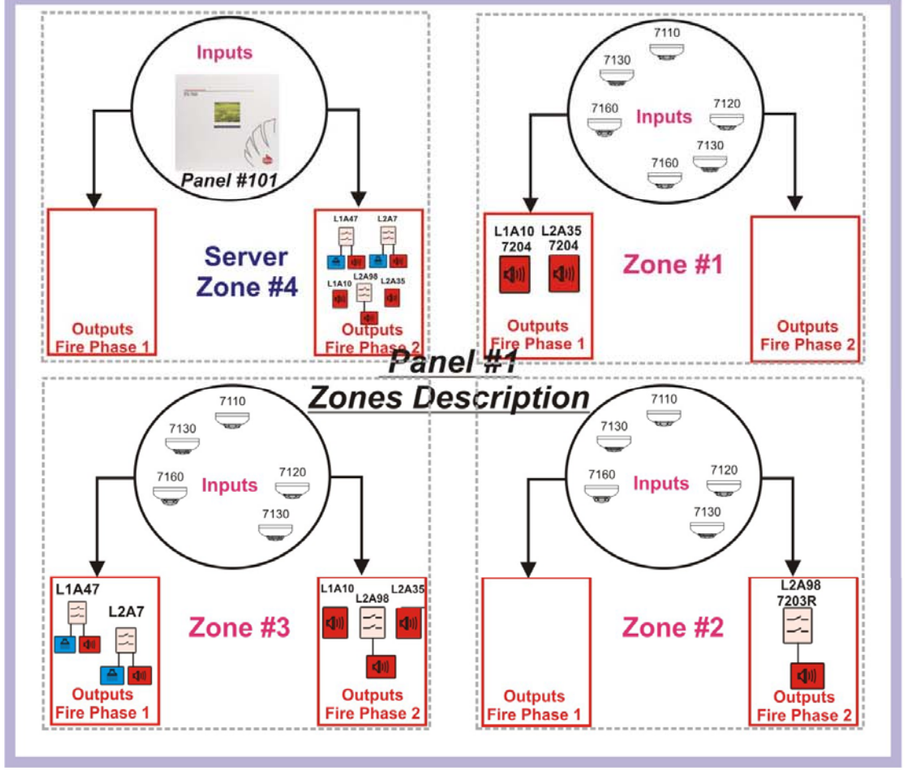
CAN Remote Object 1 Parameters:
Comm. Priority Level: Slave
CAN Comm. Port: CAN 1
CAN Comm. Type: Direct
CAN Address: 101
CAN Repeater Addr: 0

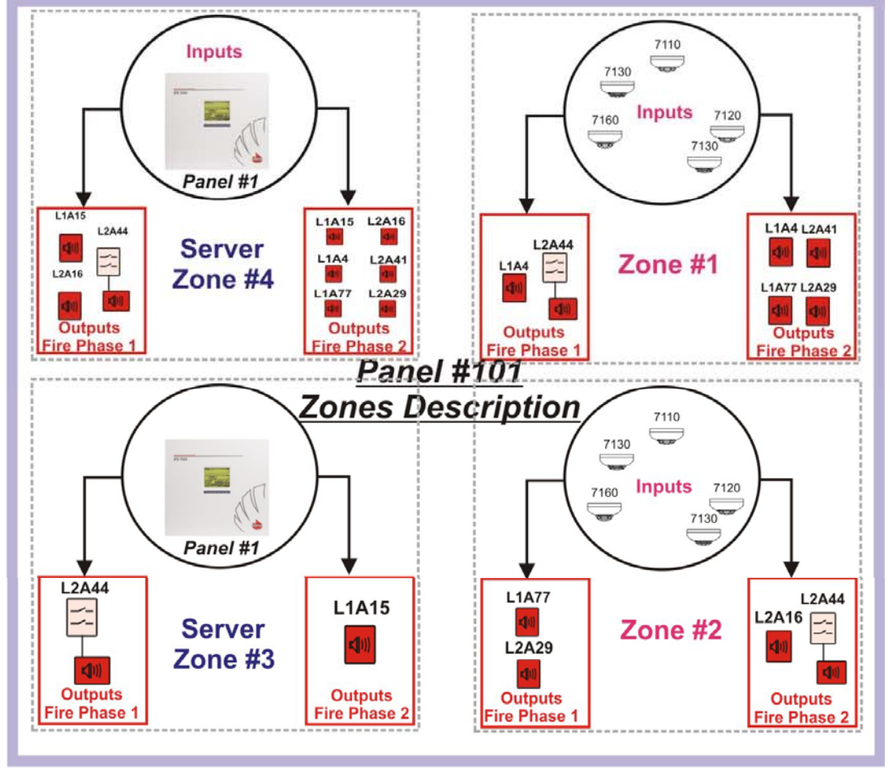
CAN Local Parameters: ***(BOTTOM)***
Local Address: 101
Communication priority level: Slave

CAN Remote Object 1 Parameters:
Comm. Priority Level: Master
CAN Comm. Port: CAN 1
CAN Comm. Type: Direct
CAN Address: 1
CAN Repeater Addr: 0









"How to make Fire detectors from Panel #1 to activate programmable outputs of Panel #101?"

- Choose the remote panel #101 from menu "Lists ->Select Local/Remote panel"

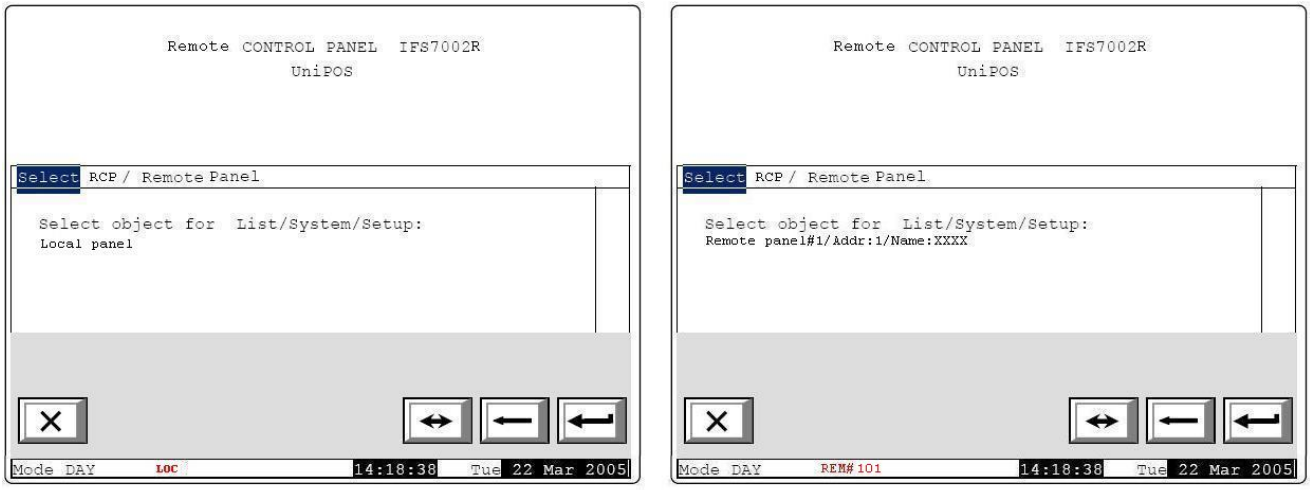


fig.14

As you can see from the TAB of the panel, the "panel indication" changes from "LOC" to "REM#101"

- Go to the "Setup -> Zone" menu and create a new zone – Zone 3 ("Server Zone #3" example page 9)

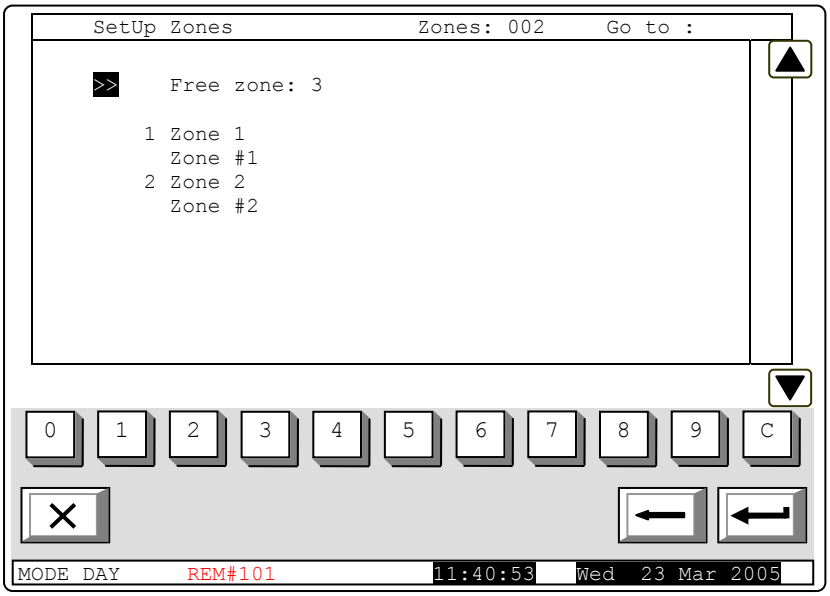


fig.15

- Go to the created new zone ("Server Zone #3") submenu "Remote Fire Server"

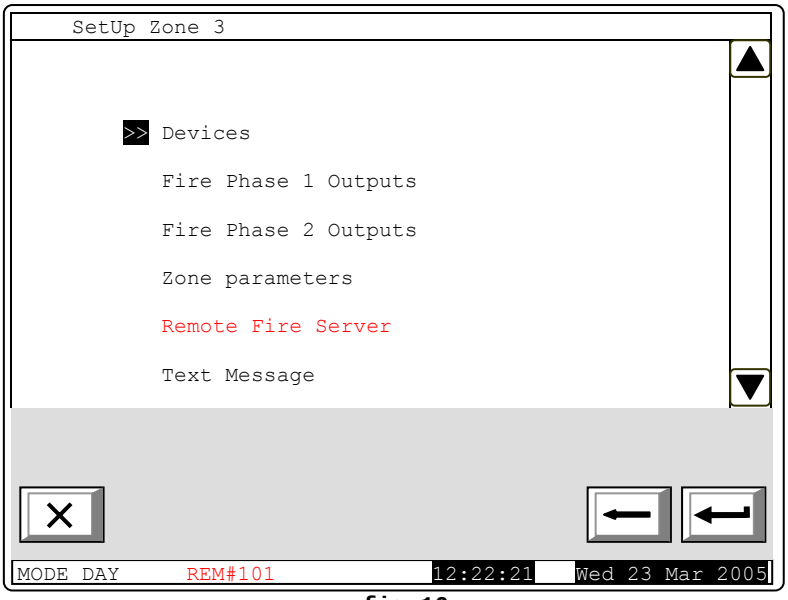


fig.16

- Go to the Remote Fire Server's submenu "Add Panel"

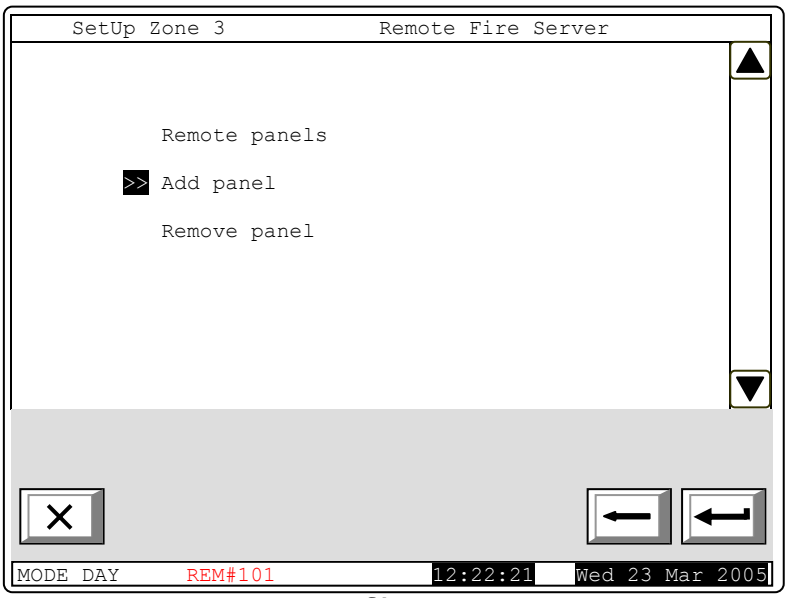


fig.17

- Point to the desired panel from the list with "Remote panels NOT to zone" and press 

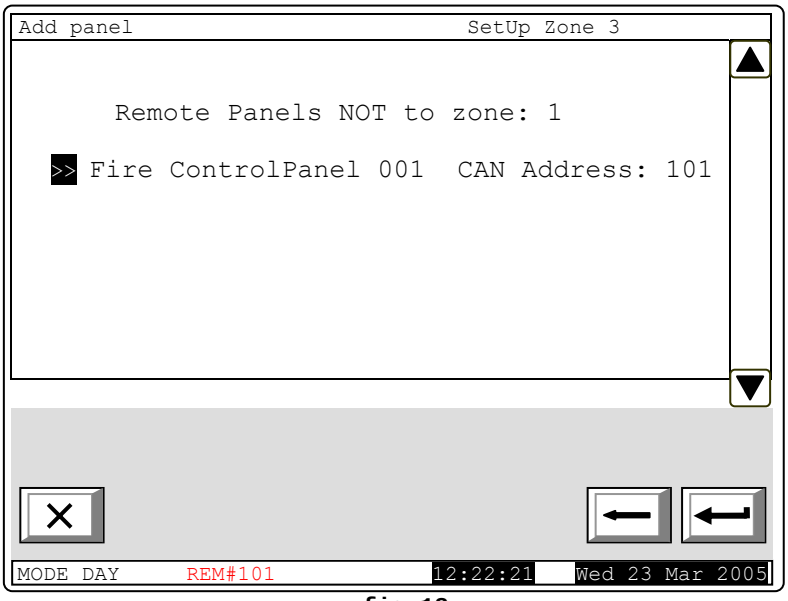


fig.18

- Step back and go to the main zone setup menu (fig. 16)
- Program the fire phase 1 outputs and fire phase 2 - the outputs you need to be activated from the remote panel

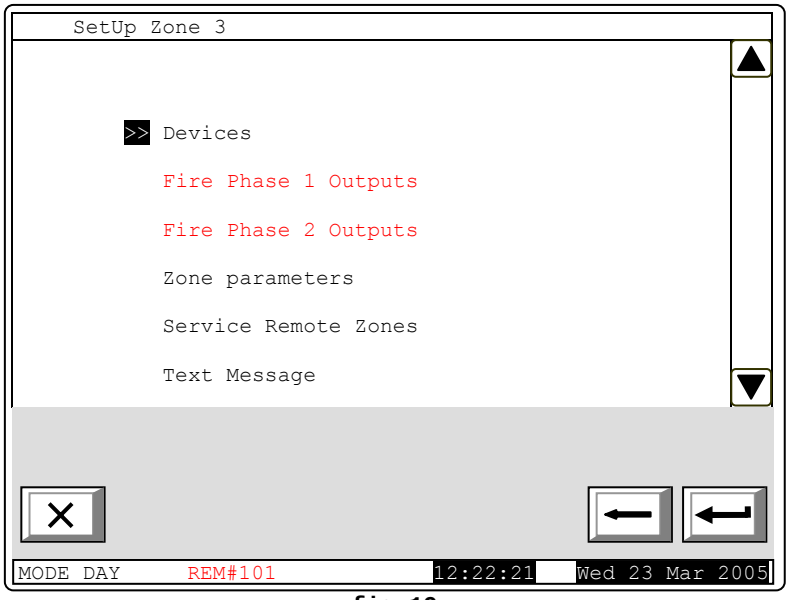


fig.19

- Go back to duty mode pressing button 

- Choose the local panel #1 from menu "Lists ->Select Local/Remote panel"

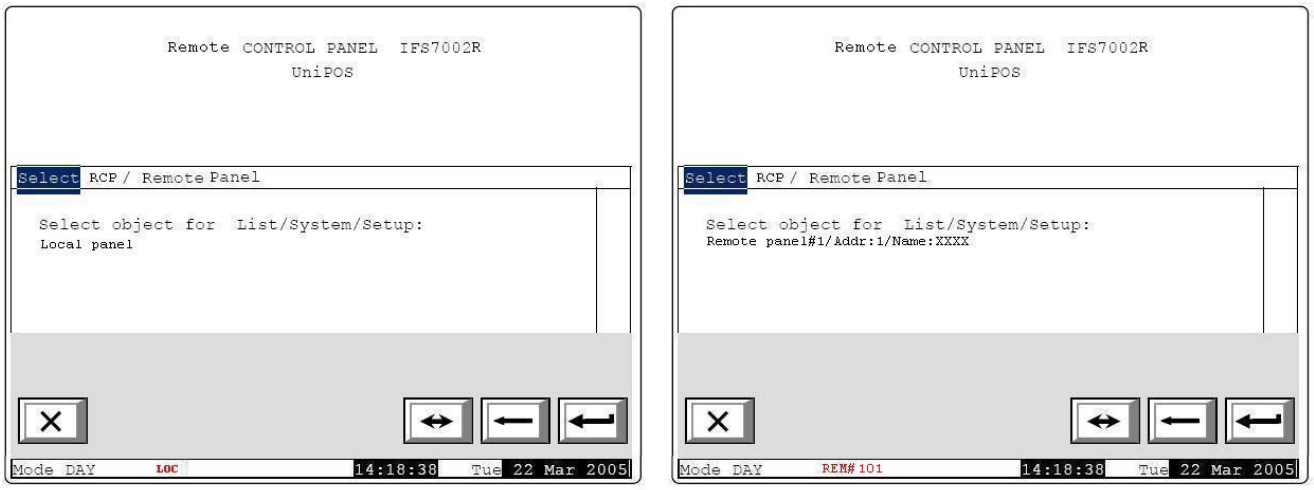


fig.20

As you can see from the TAB of the panel, the "panel indication" changes from "REM#101" to "LOC"

- Go to the "Setup -> Zones" menu and choose one of the already created zones with assigned detectors (Zone #1, Zone #2 or Zone #3 – example on page 9).

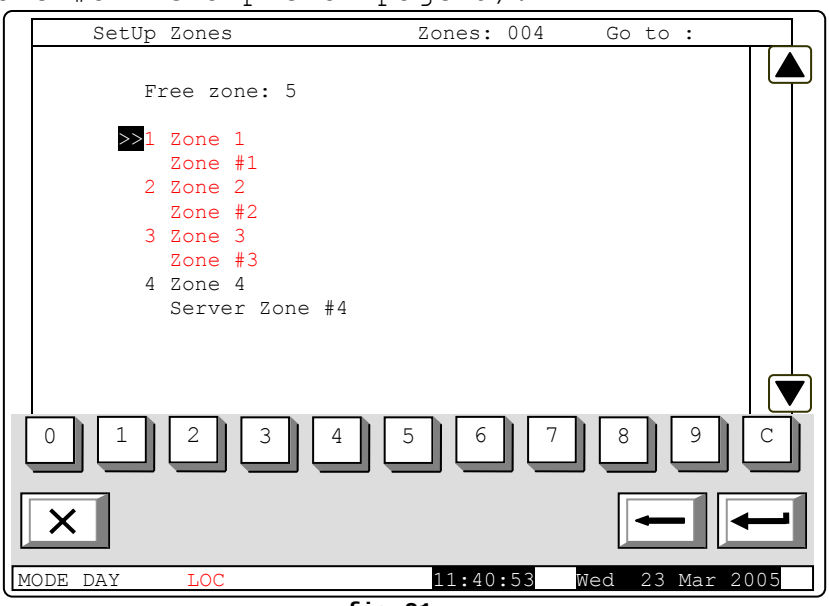


fig.21

- Go to submenu “Remote Fire Server” of the already created zones (“Zone 2” for example).

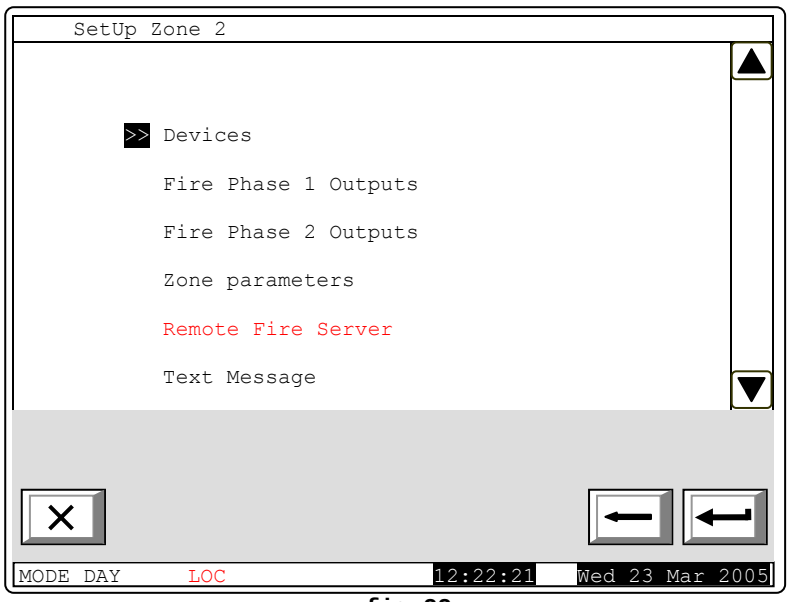


fig.22

- From menu “Add Panel” and the list of “Remote panels NOT to zone” you have to choose the panel with the server zone(Address #101).

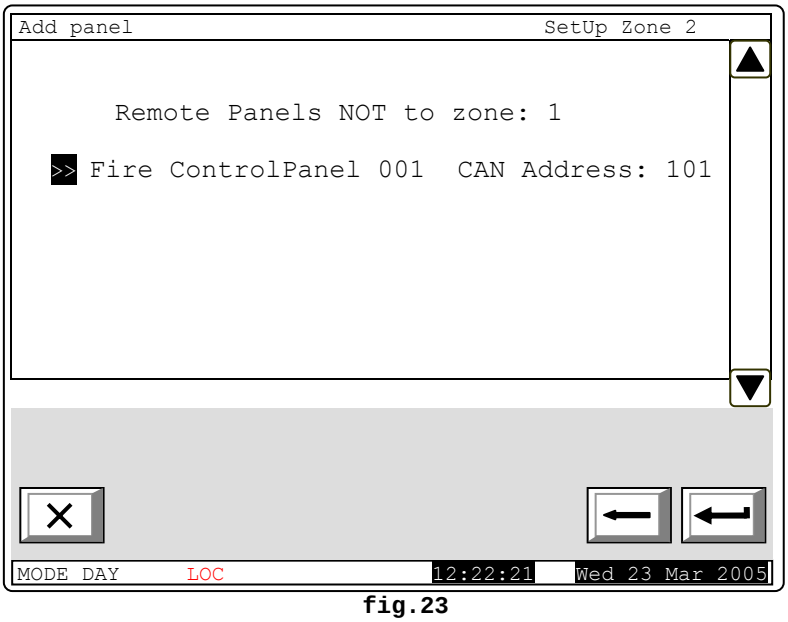


fig.23

- Go one step back and choose menu "Remote panels". From the list "Total remote panels to zone" I choose the already added panel

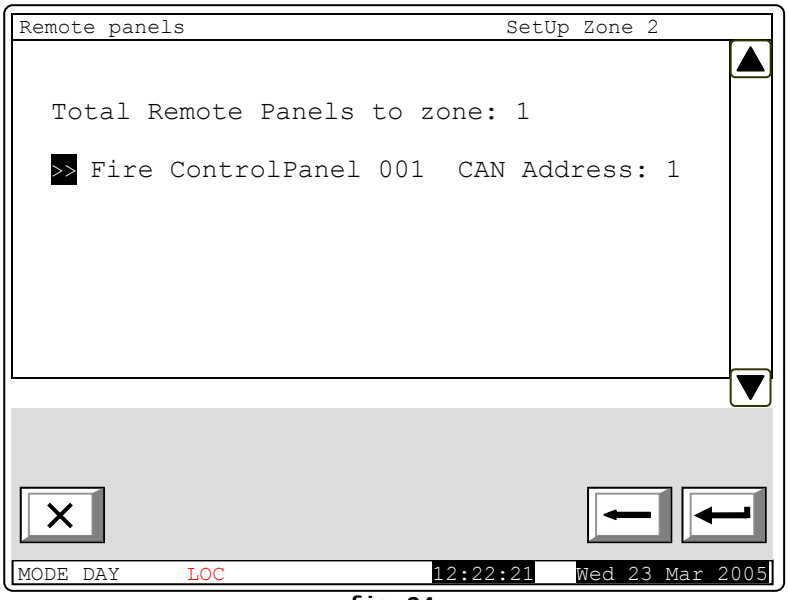


fig.24

- In the list of parameters I have to edit the "Server zone in remote panel: ***N# of server zone***". I have to choose the number of the server zone in the remote panel Address #1 (in the example from page 9 it is zone #3)

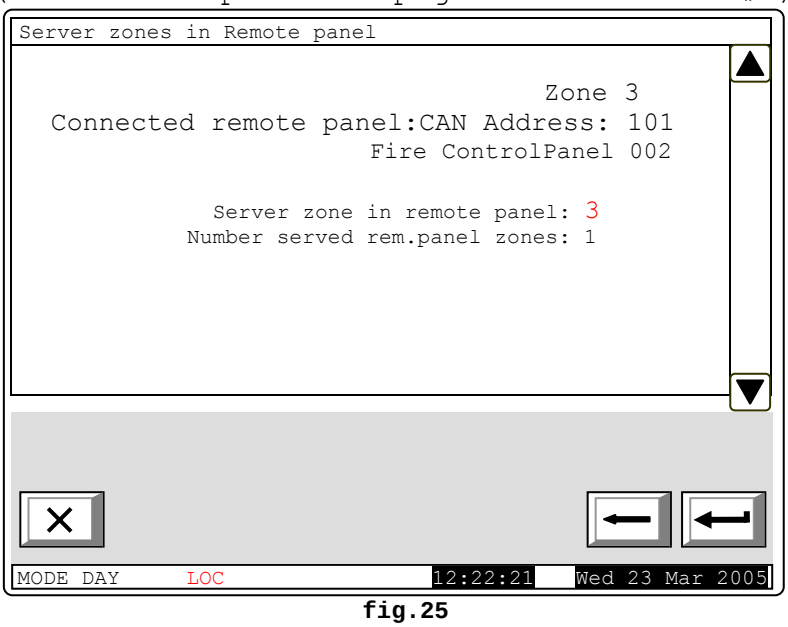


fig.25

- Go back to duty mode pressing button 

As you can see from the described two procedures above - the answer of the two problems is one and the same. **The procedure is one and the same, no matter the output activation direction Addr #1 <-> Addr.#101:**

1) We create server zones, with the necessary output configuration, in the one panel.
2) Describe which second panel's zones will activate the already created in 1) server zones.