Set-Up Communication IFS7002R <-> IFS7002

1. Cable installation:
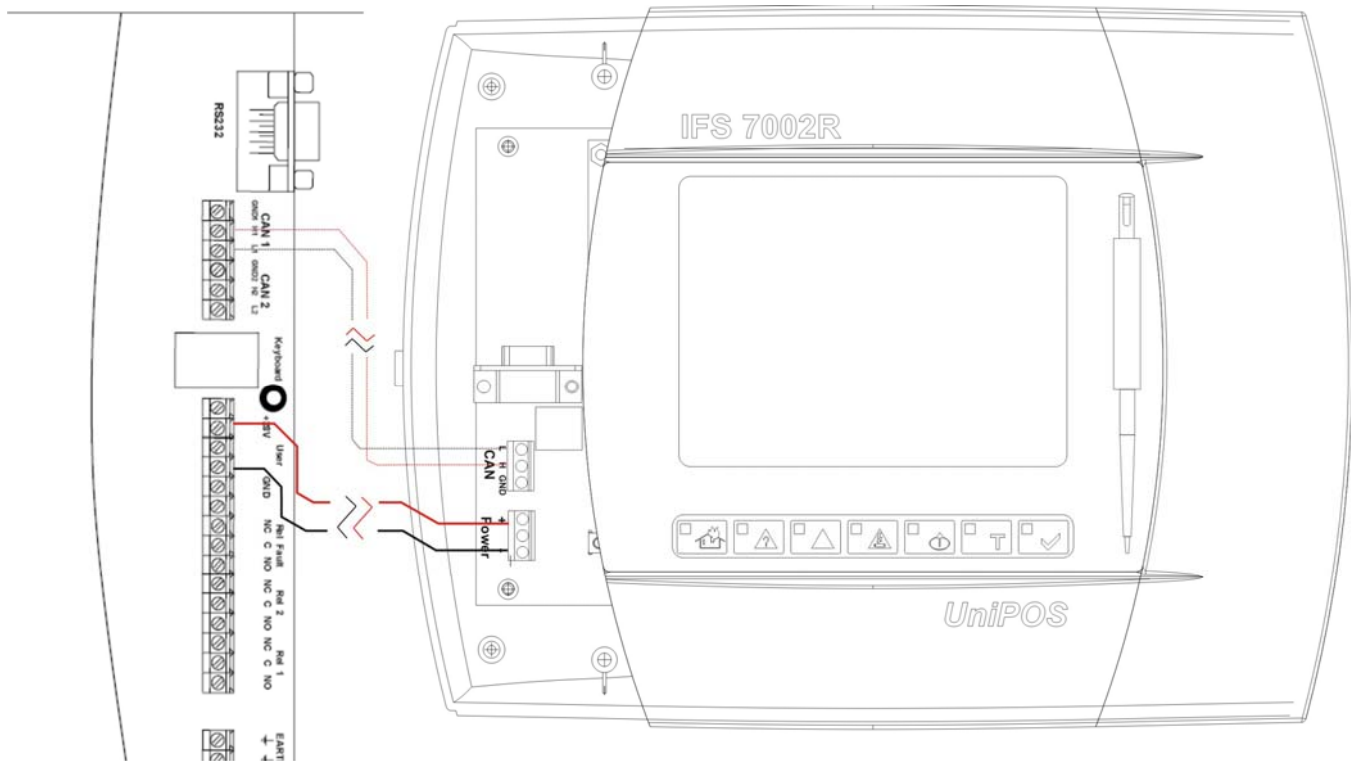

fig.1

The Repeater IFS7002R installation (fig. 1):

2 wires – power supply:

- External power supply: (12 – 30) V, I_{max} = 300 mA
- IFS7002 power supply: (16 – 30) V, I_{max} = 180 mA

2 wires – signal line for "CAN" Networking

Installation check – the CAN jumpers (right next to the connector, fig.2) must be set.

fig.2

If the cable installation is correct you should measure 60 Ohms on the CAN connector (fig. 3), when the panels in the CAN network are *switched OFF*.

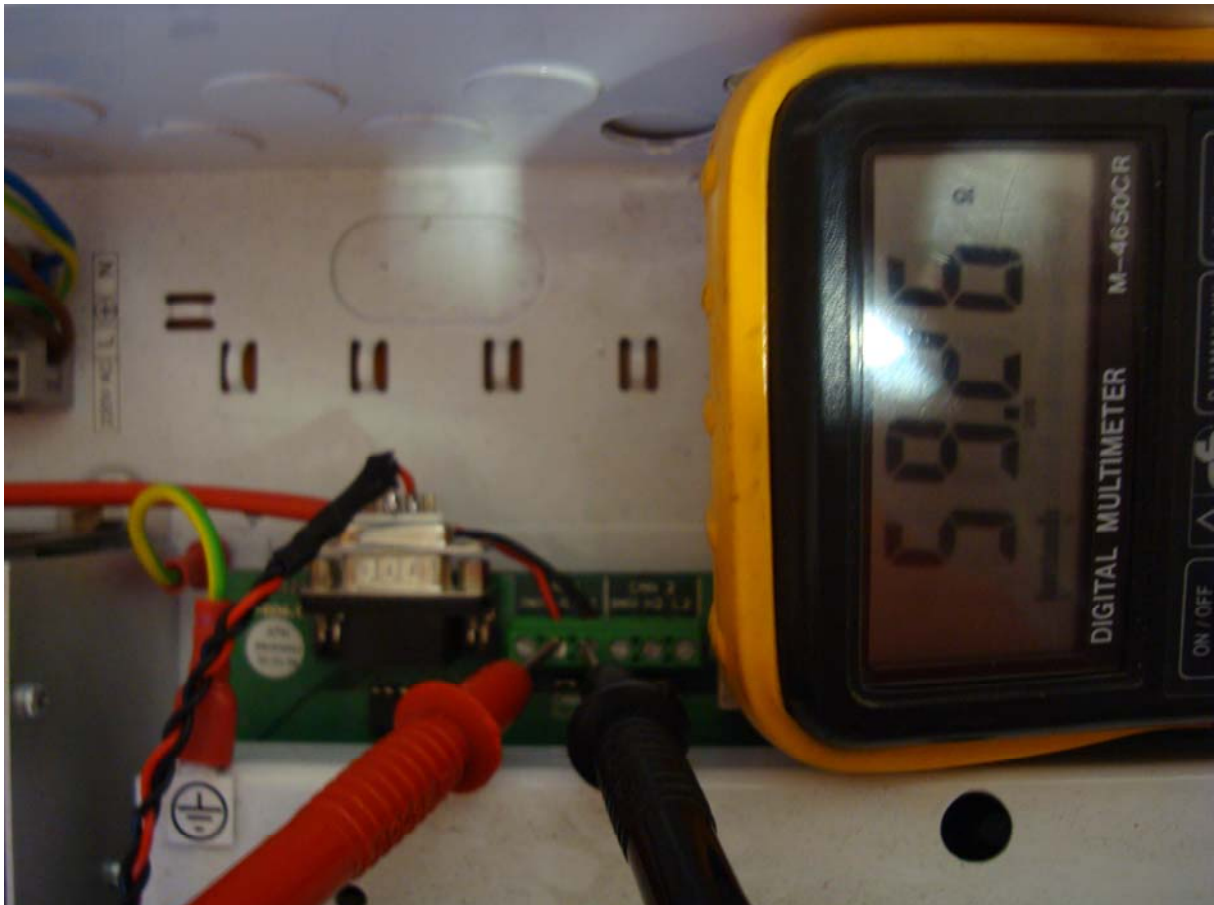
fig.3

2. Network Parameters set-up:

In this point we will discuss the CAN network parameters' set-up process. In points 2.1 to 2.5 we give the menus of the IFS7002R, but it is important to know that in the IFS7000

system the menus are equal for each panel – IFS7002 – 1 loop, 2 loops, 4 loops or repeater.

2.1. Enable the CAN network function – menu "setup -> panel configuration", parameter "Local network" must be "On" (fig.4)

Configuration RCP   v16.XX.XXR

Local network: On

Periphery device 1: няма

Periphery device 2: няма

Periphery device 3: няма

Power loop: включен

Language: Bulgarian
Check for ground: On

Mode DAY   12:51:18   Tue 22 Mar 2005
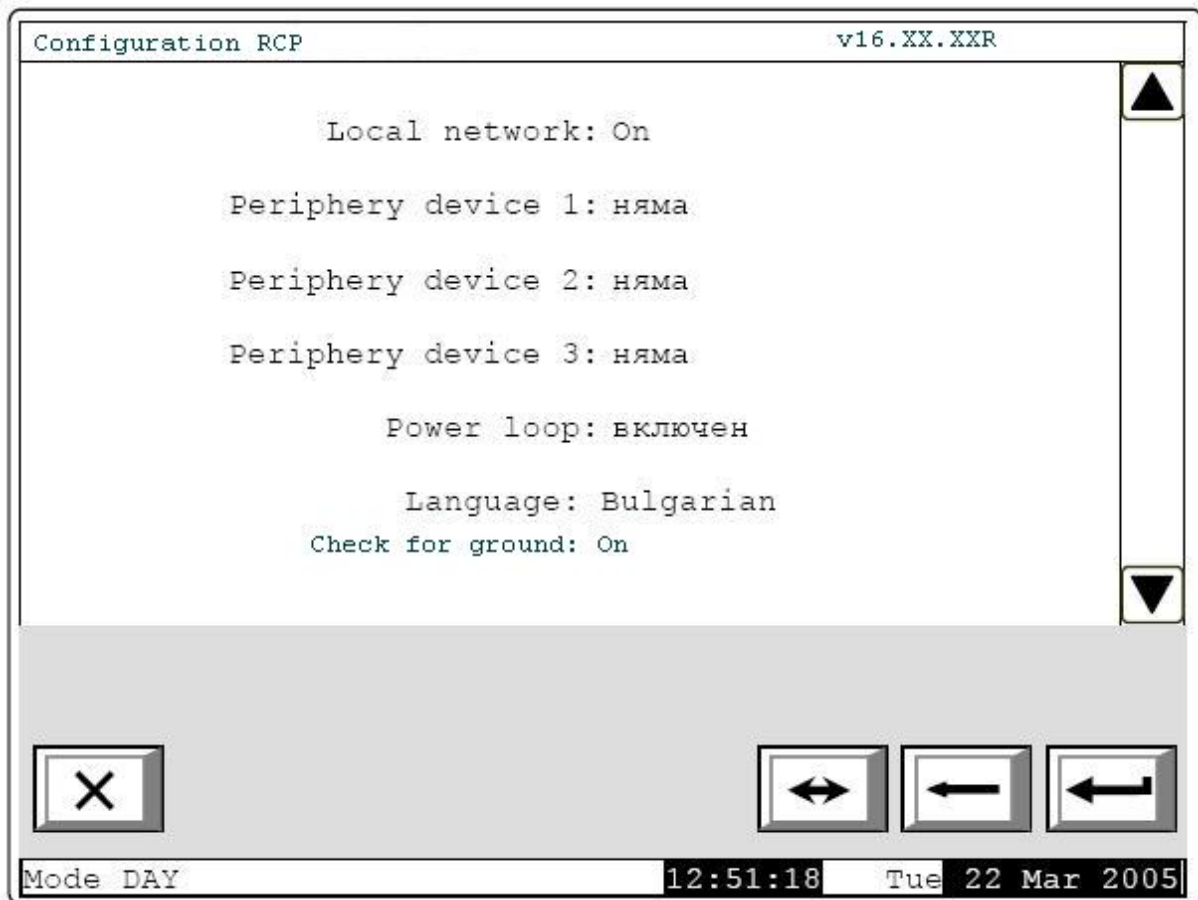
<p align="center">fig. 4</p>

- **2.2. Edit the repeater/panel local CAN parameters** – from menu "setup -> panel parameters -> CAN Local Parameters". The important parameters in this submenu are: address of the repeater/panel, Rate, Priority communic. Level (fig.5).All the other parameters must be the default values (fig.6).

Local Parameters	Panel 1,2 loops	IFS7002R Repeater	Comment
Address	1	2	Unique CAN address for each panel
Priority communic. level	Master	Slave	Only one panel in the network must be a "master"
Rate	80 kbits/s	80 kbits/s	The communication "Rate" must be equal for all the panels in the network

<p align="center">fig. 5</p>

```
Set Up RCP CAN Parameters

        Name of the repeater: Repeater 001

             Address of the repeater: 2
               TOut/RecNext,[0.1s]: 30
               TOut/RecConf,[0.1s]: 50
               TOut/RecResp,[0.1s]: 60
             Counter 'Beep' function: 0
                    MaxErrRec: 3
                   MaxErrSend: 2
             Check period,[s]: 5
                Rate,[Kbits/s]: 080
           Priority communic. level: Slave
        Total connected CAN objects: 1

  [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [C]

  [X]                    [↔] [←] [↵]

Mode DAY      RCP          14:18:38   Tue 22 Mar 2005
```
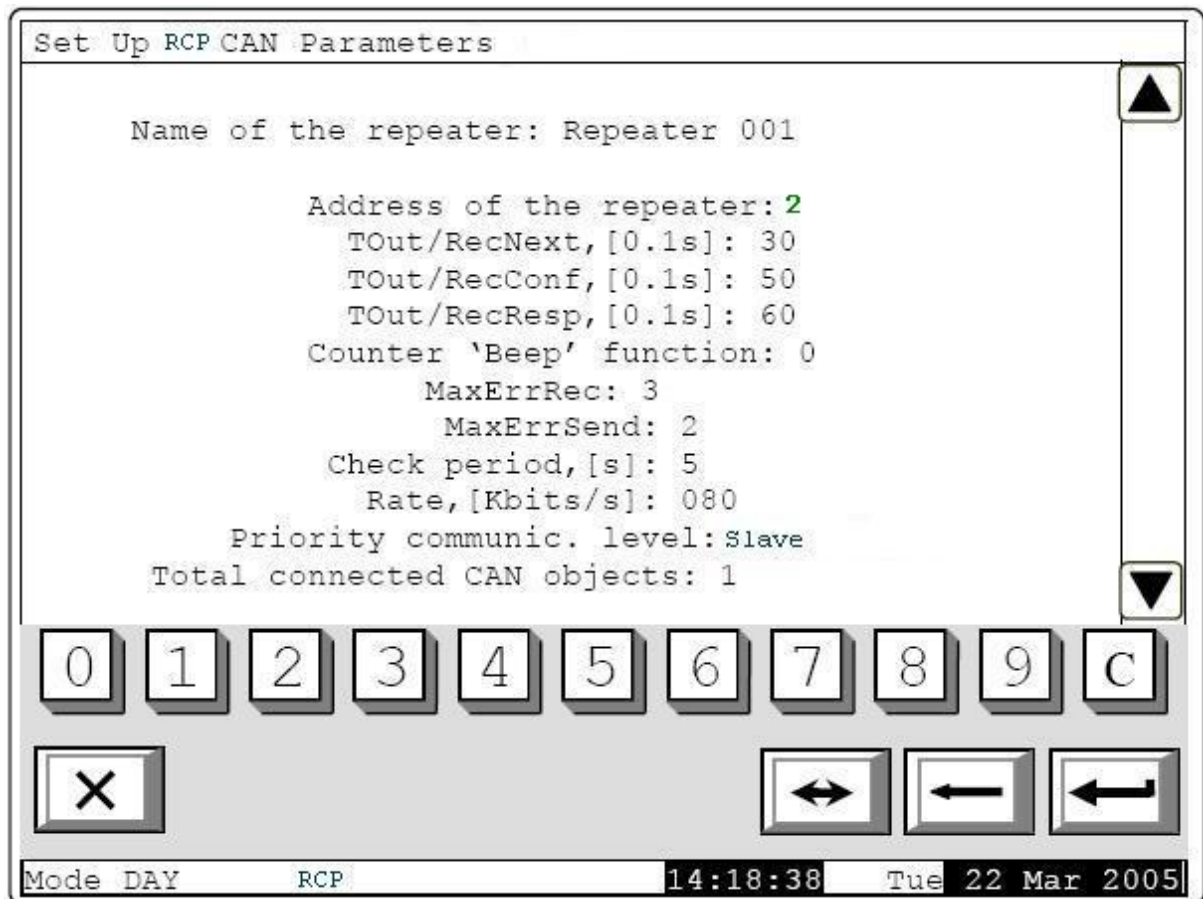
<p align="center">fig. 6</p>

2.3. Create the Remote CAN objects – after we set-up the CAN local parameters for the repeater/panel (point 2.2), next step is to set-up the remote can objects parameters. In order to create a new CAN object you must go to menu "setup -> panel parameters -> Local Network -> Add new CAN object". On the panel/repeater will be displayed a confirmation window – fig. 7:

- ▪ The line "Total connected CAN objects" declares the number of the already created CAN objects.
- ▪ "Connect new CAN object to RCP?" – A confirmation is required from the operator

```
 Set Up Add New CAN Object

    Total connected CAN objects: 0

    Connect new CAN object to RCP?
```
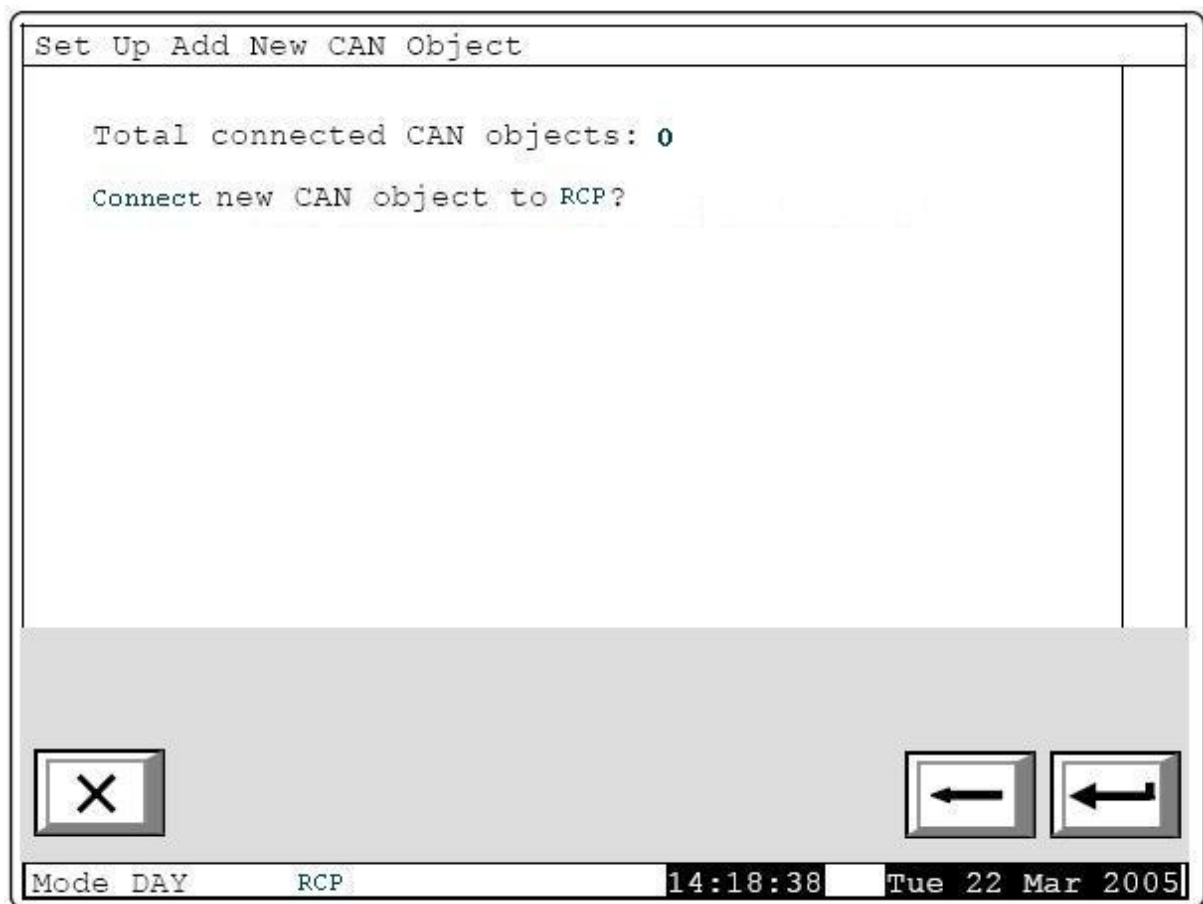
fig. 7

After the operator confirms, he is prompted to edit the remote
object parameters – fig.8. In the submenu "Remote Object
Parameters" the operator must edit the new remote object
parameters (fig.9):

- Communication priority level – the priority level of
  the new CAN object in the CAN network
- CAN address – the unique address of the new CAN object in
  the CAN network
- All the other parameters must be with default values

  In the table on fig.9 are declared the remote object
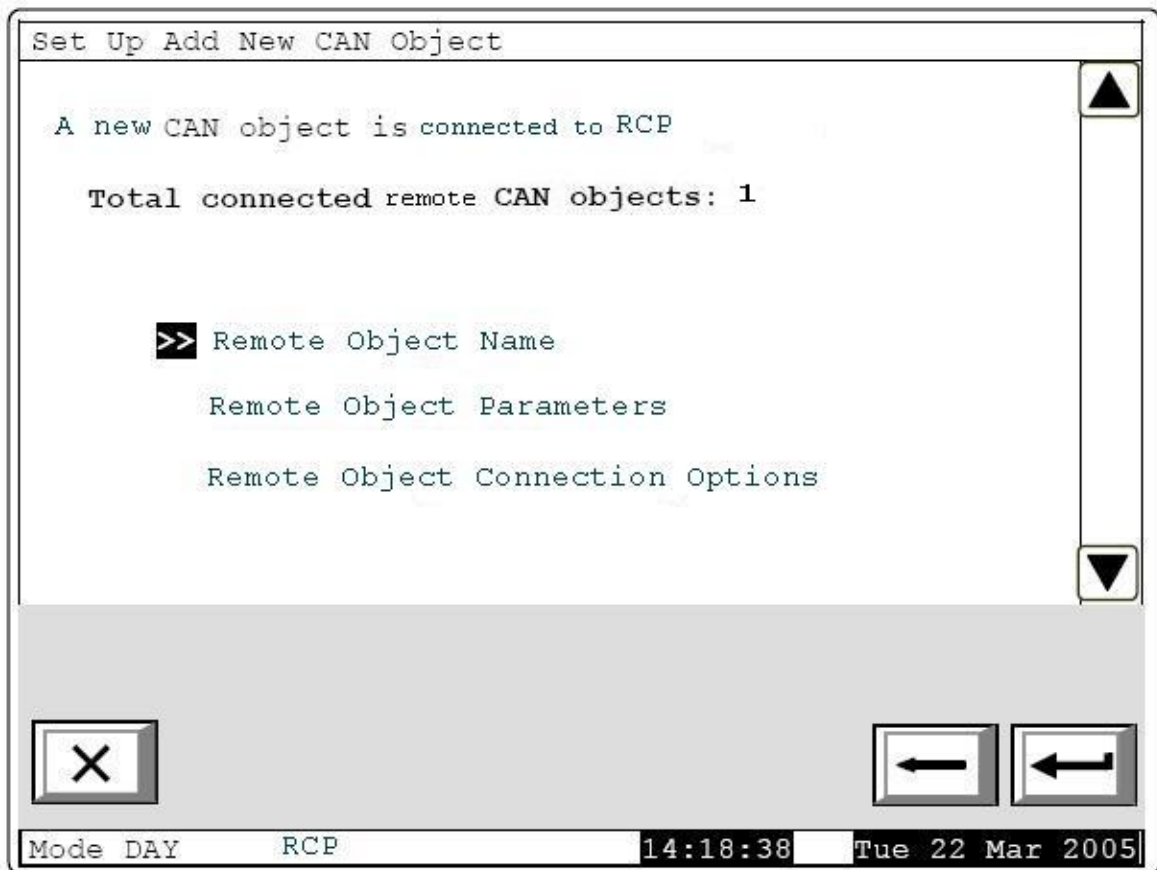parameters for the repeater and for the panel.

```
Set Up Add New CAN Object

  A new CAN object is connected to RCP

    Total connected remote CAN objects: 1



         >> Remote Object Name

            Remote Object Parameters

            Remote Object Connection Options



   [X]                              [←]   [↵]

Mode DAY        RCP              14:18:38    Tue 22 Mar 2005
```

fig. 8

```
Parameters CAN object

           Remote Object Name Fire ControlPanel 002


      Communication priority level: Master

         CAN communication port: CAN

         CAN Communication Type : Direct

              CAN address: 1

           CAN Repeater Addr: 0


 [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [C]

 [X]                      [↔]  [←]  [↵]

Mode DAY        RCP              14:18:38    Tue 22 Mar 2005
```

6

Remote objects Parameters	Panel 1,2 loops remote object	Repeater IFS7002R remote object
Address	2	1
Communication priority level	Slave	Master

fig. 9

2.4. Edit/Review the Remote CAN objects – we can edit/review the remote objects from menu "setup -> panel parameters -> Local Network -> View/Edit CAN objects" (fig. 10).
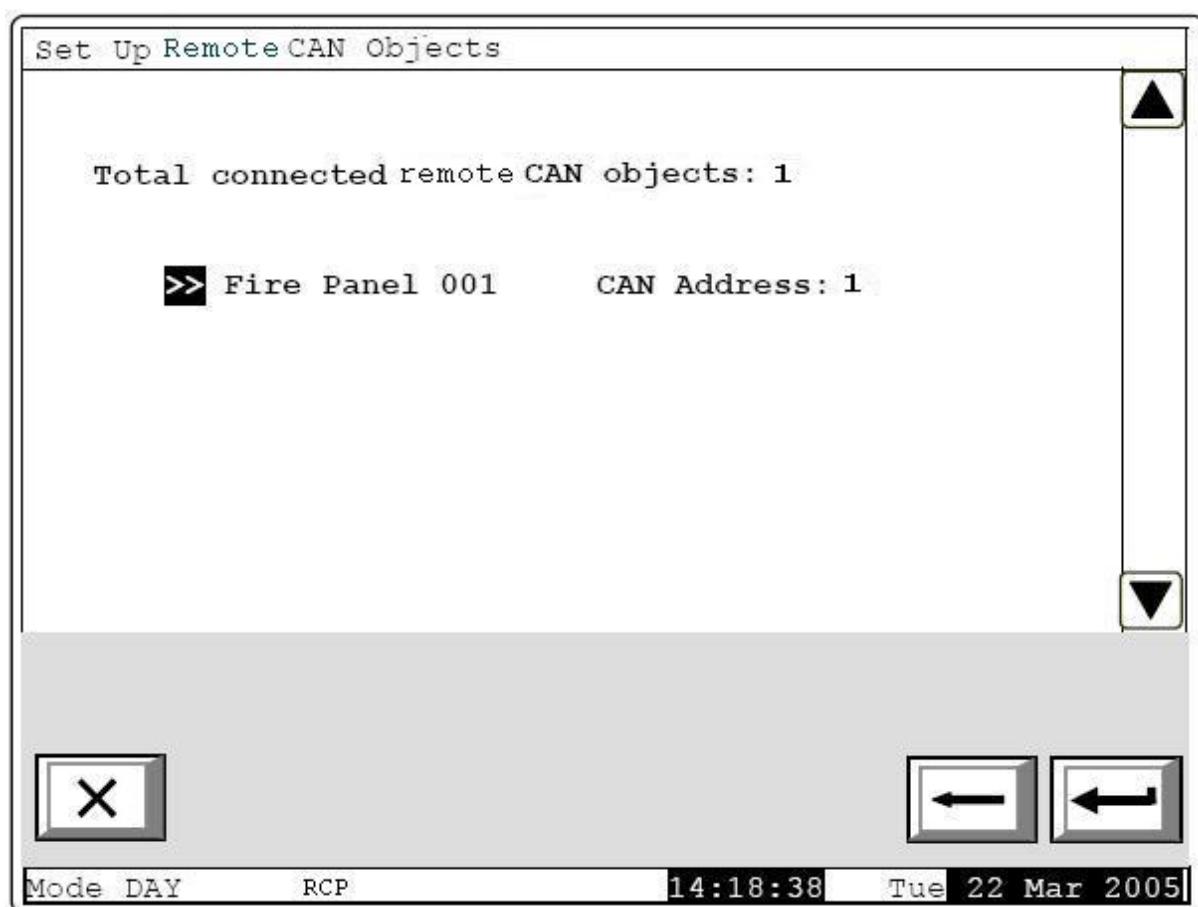

fig. 10

2.5. Delete the Remote CAN objects – we can remove remote CAN object from menu "setup -> panel parameters -> Local Network -> Remove CAN object" (fig. 11).
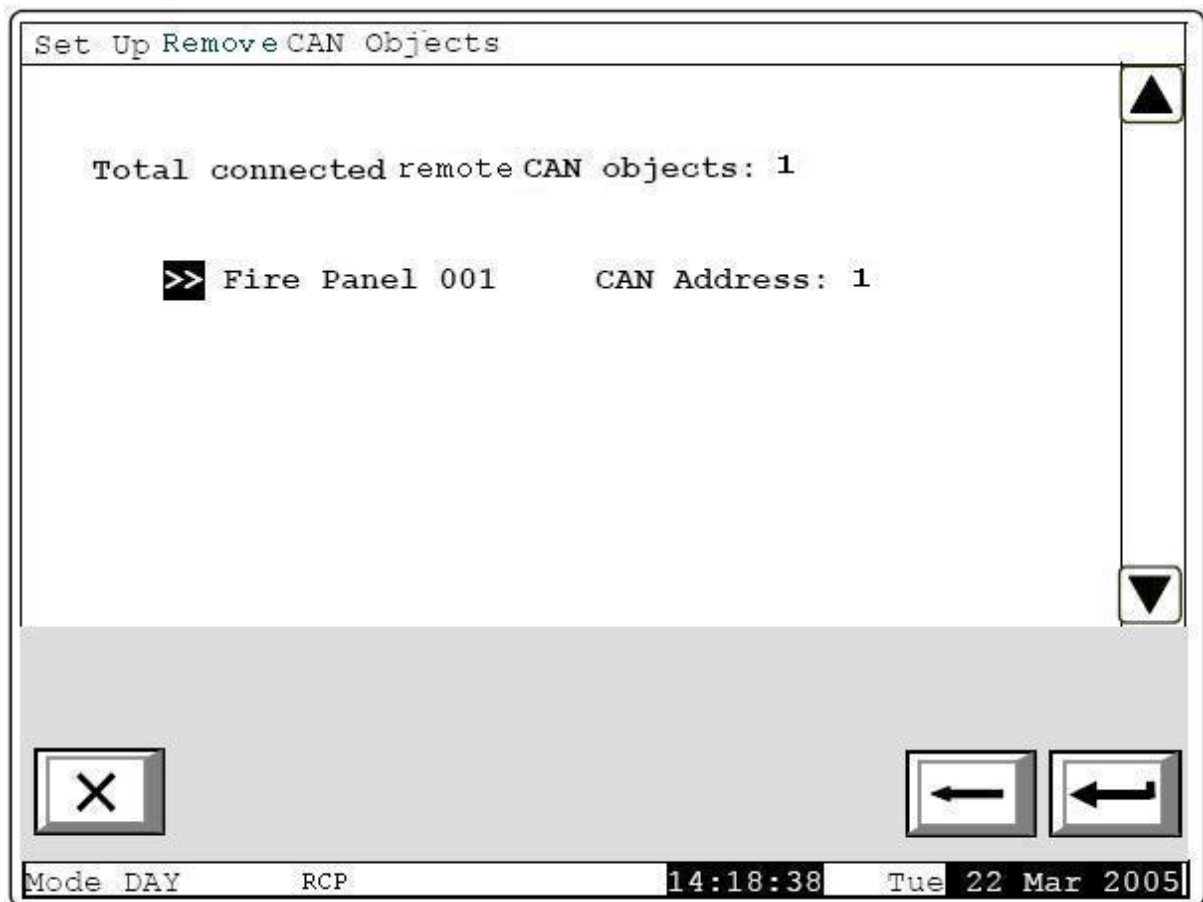
fig. 11

3. Test of the CAN networking :
- In duty mode of the panel and the repeater, we must NOT have "LAN fault Remote Panel #" in menu "Lists -> Faults -> Total"
- from menu "Lists -> Select Local/Remote Panel" we can choose the remote panel (fig.12):
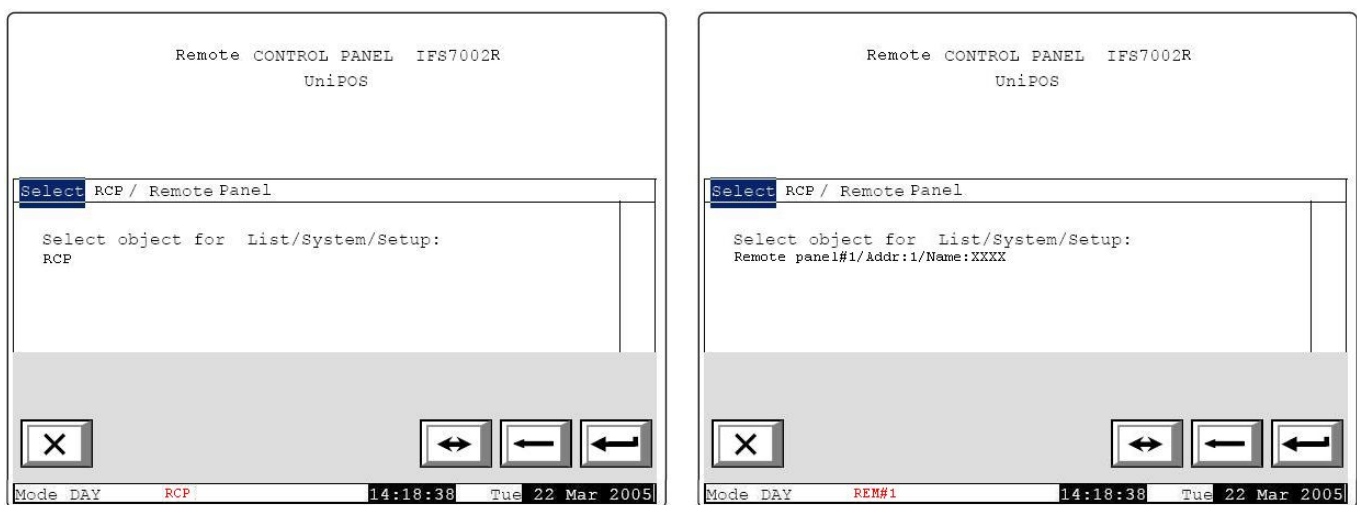

fig. 12

After we confirm the option "Remote panel..." the indication in the TAB bar will change to "REM#1" (in red letters on the fig.12). Now we can browse the menus "Lists/System functions/Setup" of the remote panel.

If during the browse process "CAN error" message appears this means that the communication is Unsuccessful.

!!! Notice: After you finish with the browse procedure of the remote panel you must go back to the Local Panel (from menu "Lists -> Select Local/Remote Panel").

Reference: