

EU Declaration of Conformity Déclaration UE de Conformité

Nr /N°: 992-9189

Products identification / Identification Produits

Type of products : Uninterruptible Power Supplies

Type de produits : Onduleurs (UPS)

Models / Modèles : Easy UPS

References Références : SRV1KI, SRV1KIL, SRV1KRI, SRV1KRIRK, SRV1KRIL, SRV1KRILRK, SRVPM1KIL, SRVPM1KRIL, SRV2KI, SRV2KIL, SRV2KRI, SRV2KRIRK, SRV2KRIL, SRV2KRILRK, SRVPM2KIL, SRVPM2KRIL, SRV3KI, SRV3KIL, SRV3KRI, SRV3KRIRK, SRV3KRIL, SRV3KRILRK, SRVPM3KIL, SRVPM3KRIL, SRVPM5KRI, SRVPM5KRIL, SRV5KRIRK, SRV5KRILRK, SRV6KI, SRV6KIL, SRV6KRI, SRV6KRIRK, SRV6KRIL, SRV6KRILRK, SRVPM6KIL, SRVPM6KRI, SRVPM6KRIL, SRV10KI, SRV10KIL, SRV10KRI, SRV10KRIRK, SRV10KRIL, SRV10KRILRK, SRVPM10KIL, SRVPM10KRI, SRVPM10KRIL, SRV1KI-H, SRV2KI-H, SRV3KI-H, SRVPM1KRIL-H, SRVPM2KRIL-H, SRVPM3KRIL-H, SRV1KI-E, SRV1KRI-E, SRV2KI-E, SRV2KRI-E, SRV3KI-E, SRV3KRI-E, SRV1KRIRK-E, SRV1KRI-E, SRV2KRIRK-E, SRV2KRI-E, SRV3KRIRK-E, SRV3KRI-E, SRV1KIL-E, SRVPM1KIL-E, SRV2KIL-E, SRVPM2KIL-E, SRV3KIL-E, SRVPM3KIL-E, SRV1KRILRK-E, SRVPM1KRIL-E, SRV2KRILRK-E, SRVPM2KRIL-E, SRV3KRILRK-E, SRVPM3KRIL-E

SRV36BP-9A, SRV72BP-9A, SRV36RLBP-9A, SRV72RLBP-9A, SRV192RBP-7A, SRV192RBP-9A, SRV240BP-9A, SRV240RLBP-9A, SRV36RLBP-9AHU, SRV72RLBP-9AHU



Easy UPS
1K & 2K Tower



Easy UPS 3K Tower



Easy UPS
6K & 10K Tower



Easy UPS
1-3K Rack Mount



Easy UPS
5/6/10K Rack Mount

We undersigned SCHNEIDER-ELECTRIC SAS declare under our sole responsibility, that APC by Schneider Electric branded products, when subject to state of the art installation, maintenance and use conforming to their intended purpose, according to applicable regulations and standards in the country where they are installed, to the supplier's instructions comply with Essential Requirements of following European Directives.

Nous, soussignés SCHNEIDER ELECTRIC SAS, déclarons sous notre seule responsabilité que nos produits catalogués sous marque APC by Schneider Electric, et sous réserve d'installation, d'entretien et d'utilisation conformes à leur destination, à la réglementation, aux normes en vigueur au sein du pays d'installation, aux instructions du constructeur et aux règles de l'art, sont conformes aux exigences essentielles des Directives Européennes suivantes.

Low Voltage Directive :
2014/35/EU / 2006/95/EC

Directive Basse Tension:
2014/35/EU / 2006/95/EC

EMC Directive :
2014/30/EU / 2004/108/EC

Directive CEM :
2014/30/EU / 2004/108/EC

RoHS Directive :
2011/65/EU, 2015/863

Directive RoHS :
2011/65/EU, 2015/863

Based on the following standards/ Basé sur les normes suivantes :

- EN IEC 62040-1:2019 /A11:2021
- EN IEC 62040-2:2018
- EN IEC 63000:2018

The CE marking on the product(s) and/or its(their) packaging signifies that Schneider Electric holds the reference technical file(s) available to the European authorities.

Schneider Electric SAS

Postal address / Adresse postale :
35 Rue Joseph Monier,
Rueil-Malmaison, France
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<http://www.schneider-electric.com>
EU DoC 992-9189_20240425

Legal information / Mentions légales

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City East Business Park, Ballybrit
Galway, Ireland

Le marquage CE sur le(les) produits et/ou son(leur) emballage signifie que Schneider Electric tient à la disposition des autorités de l'Union Européenne le(s) dossier(s) technique(s) de référence.



Raymond P. Lizotte, Jr.
Director, Environmental Stewardship Office

Date : 25 April 2024

Revision date : N/A

Date d'émission : 25 Avril 2024

Date de révision : N/A

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Legal information / Mentions légales

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City East Business Park, Ballybrit

Galway, Ireland

EU Declaration of Conformity EU- Konformitätserklärung

Nr /N°: 992-9189

Products identification / Produktidentifizierung

Type of products : Uninterruptible Power Supplies

Produktbezeichnung : Onduleurs (UPS)

Models / Modelle : Easy UPS

References / Referenz :

SRV1KI, SRV1KIL, SRV1KRI, SRV1KRIRK, SRV1KRIL, SRV1KRILRK
SRVPM1KIL, SRVPM1KRIL
SRV2KI, SRV2KIL, SRV2KRI, SRV2KRIRK, SRV2KRIL, SRV2KRILRK
SRVPM2KIL, SRVPM2KRIL
SRV3KI, SRV3KIL, SRV3KRI, SRV3KRIRK, SRV3KRIL, SRV3KRILRK
SRVPM3KIL, SRVPM3KRIL
SRVPM5KRI, SRVPM5KRIL, SRV5KRIRK, SRV5KRILRK,
SRV6KI, SRV6KIL, SRV6KRI, SRV6KRIRK, SRV6KRIL, SRV6KRILRK,
SRVPM6KIL, SRVPM6KRI, SRVPM6KRIL
SRV10KI, SRV10KIL, SRV10KRI, SRV10KRIRK, SRV10KRIL,
SRV10KRILRK, SRVPM10KIL, SRVPM10KRI, SRVPM10KRIL
SRV1KI-H, SRV2KI-H, SRV3KI-H,
SRVPM1KRIL-H, SRVPM2KRIL-H, SRVPM3KRIL-H,
SRV1KI-E, SRV1KRI-E, SRV2KI-E, SRV2KRI-E, SRV3KI-E, SRV3KRI-E
SRV1KRIRK-E, SRV1KRI-E, SRV2KRIRK-E, SRV2KRI-E, SRV3KRIRK-E,
SRV3KRI-E,
SRV1KIL-E, SRVPM1KIL-E, SRV2KIL-E, SRVPM2KIL-E, SRV3KIL-E,
SRVPM3KIL-E,
SRV1KRILRK-E, SRVPM1KRIL-E, SRV2KRILRK-E, SRVPM2KRIL-E,
SRV3KRILRK-E, SRVPM3KRIL-E

SRV36BP-9A, SRV72BP-9A, SRV36RLBP-9A, SRV72RLBP-9A
SRV192RBP-7A, SRV192RBP-9A, SRV240BP-9A, SRV240RLBP-9A
SRV36RLBP-9AHU, SRV72RLBP-9AHU



Easy UPS
1K & 2K Tower



Easy UPS 3K Tower



Easy UPS
6K & 10K Tower



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1-3K Rack Mount



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5/6/10K Rack Mount

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Wir, die unterzeichnende SCHNEIDER-ELECTRIC SAS, erklären in alleiniger Verantwortung, dass Produkte unter dem Markennamen APC by Schneider Electric, wenn sie nach dem Stand der Technik und den im Land der Installation anwendbaren Normen und Vorschriften installiert, gewartet und bestimmungsgemäß verwendet werden, den grundlegenden Anforderungen der folgenden europäischen Normen und Richtlinien entsprechen.

Low Voltage Directive :

2014/35/EU / 2006/95/EC

EMC Directive :

2014/30/EU / 2004/108/EC

RoHS Directive :

2011/65/EU, 2015/863

Niederspannungsrichtlinie:

2014/35/EU

EMV-Richtlinie:

2014/30/EU

RoHS-Richtlinie:

2011/65/EU, 2015/863

Based on the following standards/ Basierend auf den folgenden Normen:

- EN IEC 62040-1:2019 /A11:2021
- EN IEC 62040-2:2018
- EN IEC 63000:2018

The CE marking on the product(s) and/or its(their) packaging signifies that Schneider Electric holds the reference technical file(s) available to the European authorities.

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Legal information / Mentions légales

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Die CE-Kennzeichnung auf dem/den Produkt(en) und/oder der(en) Verpackung bedeutet, dass Schneider Electric entsprechenden entsprechende technische Unterlagen vorliegen und den europäischen Behörden zur Verfügung stellt.



Raymond P. Lizotte, Jr.
Director, Environmental Stewardship Office

Date : 25 April 2024

Revision date : N/A

Ausstellungsdatum: 25 April 2024

Überarbeitungsdatum: N/A

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Schneider Electric IT Logistics Europe Limited

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Fire Control Panel FS5200



The Fire Control Panel FS 5200 is a modern, highly reliable, multifunctional and versatile unit, providing the user with unexpected potential in the design, installation and operation of conventional fire alarm systems.

The FS5200 is certified by EVPU.

**MORE THAN 10 DISPLAY
LANGUAGES AVAILABLE**

Technical features

Fire detection lines (8, 16, 24 or 32):

- Maximum number of fire detectors in a line: 32
- Connecting line type: two-wire
- Maximum resistance of a line: 100 Ω

Monitored fire alarm lines (EN54-2, type C):

- Type: potential
- Electrical characteristics: (24 \pm 5)V/500 mA

Common fire relay outputs (2, 10 or 5):

- Type: potential free, switching
- Electrical characteristics: 3 A/125 V AC;
3 A/30 V DC

Common fault warning relay outputs:

- Type: potential free, switching
- Electrical characteristics: 3 A/125 V AC;
3 A/30 V DC

Indications of registered events:

- Light indication: LEDs
- Text messages: LCD display – 4 lines,
20 symbols
- Sound: Built-in buzzer

Access levels to control functions:

- 4 (in compliance with EN 54/2)

Power supply:

- Mains: 220/230 V
- Frequency: 50 Hz

Backup batteries:

- 2 x 12 V / 12 Ah

Operation in duty mode upon interrupted mains supply:

- Minimum configuration: 80 h
- Maximum configuration 30 h

Consumption on backup batteries supply in duty mode at 24 V:

- Minimum configuration: <155 mA
- Maximum configuration: <400 mA

Power supply to external devices:

- Voltage: (24 \pm 5)V
- Maximum output current (current of controllable outputs included): 1,5 A

Weight (backup batteries not included): 6,6 kg

Dimensions: 450 x 355 x 115 mm

Operating temperature: -5 $^{\circ}$ C to +40 $^{\circ}$ C

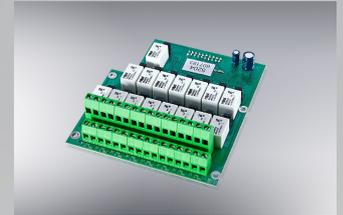
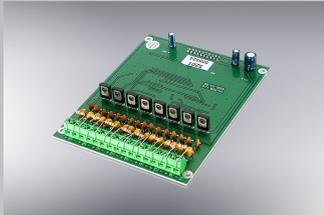
Relative humidity: to 93%

Degree of protection: IP 40

Functional data:

- Automatic reset of the fault warning condition
- Logical “AND” scenario for fire detection lines
- Fully programmable from the display user-friendly menu structure
- Modular fire alarm panel with optional modules for fire detection lines and fire alarm lines
- Optional scenarios for common fire outputs and fire alarm outputs
- Compatible with third party fire detectors with the zone-individual programmable threshold current values
- Real time clock and Event log of 2500 events

Extension modules



Extension module 5201
– 8 fire detection lines

Extension module 5202
– 8 fire detection lines
– 1 monitored fire alarm line

Relay extension module 5203
– 8 common fire relay outputs

Relay extension module 5204
– 16 common fire relay outputs

Interface module RS232/485

Provides communication between fire alarm control panels types FS5100, FS5200 and FS4000 with repeater type FS5200R products of UniPOS.

Possible configurations

FS 5200:

- 8 fire detection lines
- 1 monitored fire alarm line
- 2 common fire relay outputs

FS 5200 + 5201:

- 16 fire detection lines
- 1 monitored fire alarm line
- 2 common fire relay outputs

FS 5200+5201+5202:

- 24 fire detection lines
- 2 monitored fire alarm lines
- 2 common fire relay outputs

FS 5200+5201+5202+5203:

- 32 fire detection lines
- 2 monitored fire alarm lines
- 2 common fire relay outputs

In each one configuration it is possible to add just one module 5203 or 5204.



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www.unipos-bg.com



EVPÜ[®]

NOTIFIED BODY No. 1293

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1293 – CPR – 0678

In compliance with *Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011* (the Construction products Regulation or CPR), this certificate applies to the construction product

Fire detection and fire alarm systems Interactive addressable fire alarm panel IFS 7002

For specifications see Annex to this certificate

placed on the market under the name or trade mark of

UniPOS Ltd.

San Stefano str. 47, 5800 Pleven, Bulgaria

and produced in the manufacturing plant

UniPOS Ltd.

San Stefano str. 47, 5800 Pleven, Bulgaria

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 54-2: 1997

EN 54-2: 1997/AC: 1999

EN 54-2: 1997/A1: 2006

EN 54-4: 1997

EN 54-4: 1997/AC: 1999

EN 54-4: 1997/A1:2002

EN 54-4: 1997/A2: 2006

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on January 20th, 2020 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Nová Dubnica, January 20th, 2020

053491



Marek Hudák
Director NB

Annex to Certificate No. 1293 - CPR – 0678 from January 20th, 2020

Technical specifications:

Interactive Addressable Fire control panels IFS 7002 is designed to operate with addressable automatic fire detectors and manual call points. It controls addressable executive devices integrated into fire alarm loops. The addressable executive devices can be power supplied from the fire alarm loop or from a power loop. The panel has outputs provided for integration of external executive devices.

Products parameters:

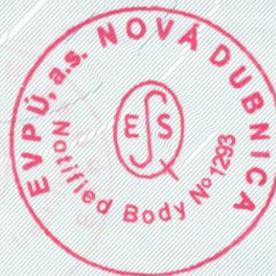
| | |
|----------------------------|--------------------|
| Power supply -Voltage | 220 / 230 VAC |
| Frequency | 50 Hz |
| Operational temperature | -5°C + +40°C |
| Relative humidity | to 93% |
| Protection degree | IP 30 |
| Dimensions | 480 x 445 x 100 mm |
| Weight (without batteries) | 7.1 kg |

| Essential characteristics | Harmonised technical specification | | Performance |
|--|--|--|-------------|
| | EN 54-2:1997 EN 54-2:1997/ AC:1999 EN 54-2:1997/ A1:2006 | EN 54-4:1997 EN 54-4:1997/ AC:1999 EN 54-4:1997/ A1:2002 EN 54-4:1997/ A2:2006 | |
| Response delay (response time to fire) | cl. 7.1, 7.7, 7.11=N/A, 7.12=N/A | - | Pass |
| Performance under fire conditions | cl. 4, 5, 7 | - | Pass |
| Performance of power supply | - | cl. 4, 5, 6 | Pass |
| Operational reliability | cl. 4, 5, 6, 7, 8, 9, 10, 11=N/A, 12, 13, 14 | cl. 4, 5, 6, 7, 8 | Pass |
| Durability of operational reliability: temperature resistance | cl. 15.4 | cl. 9.5 | Pass |
| Durability of operational reliability: vibration resistance | cl. 15.6, 15.7, 15.15 | cl. 9.7, 9.8, 9.15 | Pass |
| Durability of operational reliability: electrical stability | cl. 15.8, 15-9 to 15.12=N/A, 15.13 | cl. 9.9, 9.10 to 9.13=N/A | Pass |
| Durability of operational reliability: humidity resistance | cl. 15.5, 15.14 | cl. 9.6, 9.14 | Pass |

History of certification

| No. | Certificate No. | Description | Date of issue |
|-----|-----------------|---|---------------------------------|
| 1 | 1293-CPD-0086 | Original certificate issued | June 11 th , 2008 |
| 2 | 1293-CPD-0219 | Added place of factory | January 10 th , 2011 |
| 3 | 1293-CPD-0292 | Changed place of factory | March 9 th , 2012 |
| 4 | 1293-CPR-0678 | CPR certificate issued Change of address | January 20 th , 2020 |

Nová Dubnica, January 20th, 2020




 Marek Hudák
 Director NB



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NOTIFIED BODY No. 1293

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1293 – CPR – 0676

In compliance with *Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011* (the Construction products Regulation or CPR), this certificate applies to the construction product

Conventional Fire Alarm Control Panel FS-5100 & FS-5200

For specifications see Annex to this certificate

placed on the market under the name or trade mark of

UniPOS Ltd.

San Stefano str. 47, 5800 Pleven, Bulgaria

and produced in the manufacturing plant

UniPOS Ltd.

San Stefano str. 47, 5800 Pleven, Bulgaria

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 54-2: 1997

EN 54-2: 1997/AC: 1999

EN 54-2: 1997/A1: 2006

EN 54-4: 1997

EN 54-4: 1997/AC: 1999

EN 54-4: 1997/A1:2002

EN 54-4: 1997/A2: 2006

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on January 20th, 2020 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Nová Dubnica, January 20th, 2020

053489

EVPÜ a.s., Trenčianska 19, SK 018 51 Nová Dubnica, Slovak Republic, www.evpu.sk
Page 1 / 2 FCO 425-13 Rev.1



Marek H u d á k
Director NB

Annex to Certificate No. 1293 - CPR – 0676 from January 20th, 2020

Technical specifications:

Conventional Fire control panels FS-5100 and FS-5200 are designed to operate with conventional automatic fire detectors and manual call points. The panel has outputs provided for external executive devices. Its modular structure allows for variable configurations according the specific features of the protected site.

The basic configuration of **FS-5100** includes two lines; the maximum configuration includes eight lines. Up to 32 fire detectors can be integrated into one line.

The basic configuration of **FS-5200** includes eight lines; the maximum configuration includes 32 lines. Up to 32 fire detectors can be integrated into one line.

Products parameters:

| | |
|--------------------------------------|--------------------|
| Power supply -Voltage | 220 / 230 VAC |
| Frequency | 50 Hz |
| Operational temperature | -5°C + +40°C |
| Relative humidity | up to 93% |
| Protection degree | IP 30 |
| Dimensions up to (FS-5100) | 445 x 327 x 87 mm |
| Weight (without batteries) (FS-5100) | 5.2 kg |
| Dimensions up to (FS-5200) | 450 x 355 x 115 mm |
| Weight (without batteries) (FS-5200) | 6.6 kg |

| Essential characteristics | Harmonised technical specification | | Performance |
|--|--|--|-------------|
| | EN 54-2:1997 EN 54-2:1997/ AC:1999 EN 54-2:1997/ A1:2006 | EN 54-4:1997 EN 54-4:1997/ AC:1999 EN 54-4:1997/ A1:2002 EN 54-4:1997/ A2:2006 | |
| Response delay (response time to fire) | cl. 7.1, 7.7, 7.11, 7.12 | - | Pass |
| Performance under fire conditions | cl. 4, 5, 7 | - | Pass |
| Performance of power supply | - | cl. 4, 5, 6 | Pass |
| Operational reliability | cl. 4, 5, 6, 7, 8, 9, 10, 11=N/A, 12, 13, 14 | cl. 4, 5, 6, 7, 8 | Pass |
| Durability of operational reliability: temperature resistance | cl. 15.4 | cl. 9.5 | Pass |
| Durability of operational reliability: vibration resistance | cl. 15.6, 15.7, 15.15 | cl. 9.7, 9.8, 9.15 | Pass |
| Durability of operational reliability: electrical stability | cl. 15.8, 15-9 to 15.12=N/A, 15.13 | cl. 9.9, 9.10 to 9.13=N/A | Pass |
| Durability of operational reliability: humidity resistance | cl. 15.5, 15.14 | cl. 9.6, 9.14 | Pass |

History of certification

| No. | Certificate No. | Description | Date of issue |
|-----|-----------------|---|----------------------------------|
| 1 | 1293-CPD-0157 | Original certificate issued | November 16 th , 2009 |
| 2 | 1293-CPD-0217 | Added place of factory | January 10 th , 2011 |
| 3 | 1293-CPR-0290 | Changed place of factory | March 9 th , 2012 |
| 4 | 1293-CPR-0676 | CPR certificate issued Change of address | January 20 th , 2020 |

Nová Dubnica, January 20th, 2020

Marek Hudák
Director NB

CERTIFICATE

No:32/24.02.2020

UniPOS LTD – 47 San Stefano Str. 5800 Pleven, Bulgaria
represented by dipl. eng. Hristo Dimitrov – General Manager
authorizes:

EXPRESMARKET SRL

Adress: Str. Mihail Sadoveanu 18/1,Chisinau, Moldova

Represented by
Spinu Sergiu
to be:

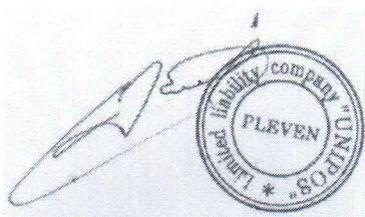
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dipl. eng. Hristo Dimitrov – General Manager

This certificate is valid within 12 months from the date of issue.

Remote Control Panel IFS7002R



The IFS7002R repeater panel allows vital information from the IFS7000 system to be communicated through points around the building, remote from the fire alarm control panels. Distributed at strategic points in a facility - such as nurse stations, floor landings, control rooms - valuable time can be saved when identifying the location of a fire and evacuating the building.

**MORE THAN 10 DISPLAY
LANGUAGES AVAILABLE**

Performance

- Number of the control panels or / and repeaters connected to IFS7002R – up to 31
- Indicating fire condition and / or fault condition from each zone or fire detector from the connected to it remote panels
- Full range of commands available for sending to the remote fire control panels
- Remote panels' parameters review and full access to the setup of these parameters
- User-friendly menu dialogue for easy and convenient operation
- Graphic LCD display for visualizing the remote fire control panels status
- Dynamic keypad based on a Touch-screen panel
- LEDs and sound indication for faults, fire and other operation modes
- Built-in real time clock
- Interfaces for communication with PC – RS-232 directly or LAN via a converter RS232 – LAN Ethernet

Technical features

Power supply from panel IFS7002:

- Voltage: (23±7)V
- Maximal current: 180 mA

External power supply (in accordance with EN54-4):

- Voltage: (12 – 30)V
- Maximal current: 300 mA

Interfaces for communication:

- with panels IFS7002: CAN 2.0B
- with PC: directly RS-232 or LAN through converter RS232 – LAN Ethernet

PC keyboard for setup and programming:

Directly

Indication:

- Light: LEDs
- Text: LCD touch screen display, 320 x 240 points, light
- Sound: Built-in sounder

Dimensions: 290 x 219 x 46mm

Weight: 1kg



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Phone: +359 2 97 439 25, +359 2 97 444 69

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Phone: +359 64 891 100

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Repeater for indication and control IFS7002R

EVPÜ
1293-CPD-0292
CE
1293



Instruction Manual

Revision 4/09.17

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1. Introduction

Repeater IFS7002R is a device supplementing the range of IFS7000 series devices as it expands the potentials of systems established based on Fire Control Panel IFS7002.

The device is suitable in premises where:

- The person, that are expected to find and initially respond to the fire condition and/or fault condition alarm are situated on different place from the location of the fire control panel/s.
- Fire control panels, located in different buildings have to be monitored and controlled from one location.
- The fire control panel or panels are monitored from several locations simultaneously.

2. Function

The repeater IFS7002R is designed to optimize the performance of users. The repeater is a network made up of connected remote fire control panels IFS7002 and other repeaters IFS7002R.

Repeater IFS7002R:

- Receives and displays information about the status of remote fire control panel/panels.
- Formed a control action to remote areas of fire stations for their forced exit from the state "Fire".

3. Technical data

3.1. Performance

- Number of the control panels or/and repeaters connected to IFS7002R – up to 31.
- Indicating fire condition and/or fault condition from each zone or fire detector from the connected to it remote panels.
- Full range of commands available for sending to the remote fire control panels.
- Remote panels' parameters review and full access to the setup of these parameters.
- User-friendly menu dialogue for easy and convenient operation.
- Graphic LCD display for visualizing the remote fire control panels status.
- Dynamic keypad based on a Touch-screen panel.
- LEDs and sound indication for faults, fire and other operation modes.
- Built-in real time clock.
- Interfaces for communication with the fire control panels IFS7002 – CAN 2.0B connected to it.
- Built-in USB interface for connection to second level control devices
- Possibility for connection of PC keyboard for setting up and programming.
- Dedicated led indication per fire in remote zone;
- Built-in fire outputs for triggering of 3rd party periphery devices;

3.2. Physical configuration

- 1 relay output for fault conditions
- 1 relay outputs for fire condition

3.3 Relay output for fire conditions

- Type - 1 pc
- Electrical characteristics - potential free, switching,
- 3A/125VAC; 3A/30VDC

3.4. Relay output for fault conditions

- Type - 1 pc
- Electrical characteristics - potential free, switching
- 3A/125VAC; 3A/30VDC

3.5. Indications of registered events

- | | |
|---|--|
| 3.5.1. Light indication | - LED |
| 3.5.2. Text message | - LCD display, 320 x 240 points, backlit |
| 3.5.3. Sound signaling | - built-in sounder |
| 3.5.4. Dedicated light remote zone indication | - LED |

3.6. Power supply

- | | |
|---|-------------------------|
| 3.6.1. From the fire control panel connected with the repeater IFS7002R | |
| Voltage | - (23±7)V DC |
| Maximum current value | - 180 mA |
| 3.6.2. From external power supply (in compliance with EN54-4) | |
| Voltage | - (12 - 30)V DC |
| Maximum current value | - 310 mA |
| 3.6.3. From PSU module mounted in the cabinet of the Repeater | |
| 3.6.3.1 Mains | |
| – voltage | - 220/230V |
| – frequency | - 50Hz |
| 3.6.3.2 Back up batteries | |
| – battery type | - lead, gel electrolyte |
| – number of batteries | - 2 pcs |
| – connection | - serial connection |
| – nominal voltage of the back up battery | - 2x12V DC |
| – nominal capacity C ₂₀ | - 7Ah |
| – charge voltage | - 28V |

3.7. Dimensions

- 304x222x94 mm

3.8. Weight

- | | |
|-----------------------------------|-------------|
| – Weight (batteries not included) | - 1.240 kg. |
|-----------------------------------|-------------|

4. Contents of delivery

- | | |
|---------------------------------------|--------|
| • Repeater IFS7002R | - 1 pc |
| • Jumper for the backup batteries | - 1 pc |
| • Packing | - 1 pc |
| • Fuse 4A | - 1 pc |
| • Fuse 6,3A | - 1 pc |
| • Screws | - 2 pc |
| • Package stylus | - 1 pc |
| • Termination jumper | - 1 pc |
| • leaflet with the installation steps | - 1 pc |

5. General information

Management is done by panel buttons, displayed on touch screen. Depending to the selection menu, screen or function, different button active.

An important condition for the durability of touch screen panel is required for compliance with it.

The purpose of the stylus (pos.1, fig.1) is comfortable and save with touch screen panel.

With the stylus is pressed lightly in the button depicted. The self-adhesive pad of the carrier (поз.2, фиг.1) allows for easy fixation at the proper place.

The recommended place on the fire control panel IFS7002 is displayed on Fig. 2.

Usage of other objects for touch-screen operation is not recommended due to possible damage

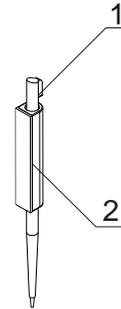


Fig.1

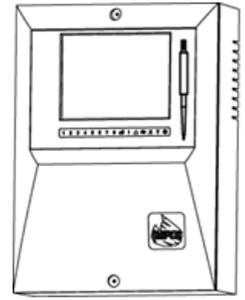


Fig.2

5.1. Access levels

Four levels of access to the variable indications and control functions of IFS7002R are available.

5.1.1. Access level 1

All persons who would presumably find out and react to alarm upon fault condition or fire condition have access to level 1.

The following actions are accessible:

- Displaying suppressed messages for Fire condition, Fault condition, Disabled components and Zones in test.
- Entering inspection time period.
- Forced proceeding from phase Fire condition stage I to Fire condition stage II.
- Suppressing the local sounder.
- Displaying text messages from inputs.
- Displaying program data for the repeater.
- Displaying the status of the addressable devices in the loops of the fire control panels connected to it.

All light indicators of the repeater are visible.

5.1.2. Access level 2

The personnel in charge of the fire protection have access to level 2; they shall be authorized and trained to operate the repeater and the fire detecting system in the following conditions:

- Duty Mode
- Fire condition
- Fault condition
- Disabled component
- Information and adjustment

To enter Access level 2 use your password.

The following features of the repeater are accessible:

- All features accessible at Level 1.
- Switching off the outputs, activated upon fire condition.
- Exit of Fire condition.
- System functions of the repeater.

5.1.3. Access level 3

Accessible for personnel trained and authorized to:

- Reconfiguration of specific data – of the protected site, saved in the repeater or the fire control panels connected to it.
- Maintenance the established fire detecting system.

To enter Access level 3 use your password.

5.1.4. Access level 4

Accessible for personnel trained and authorized by the Producer to repair the repeater and to modify its software. Special means are required to enter this level.

5.2. Conditions and indications

When the repeater IFS7002R is switched on it runs an initial verification of CAN network parameters. It checks the entered fire control panels and their condition.

The repeater IFS7002R operates in seven basic modes: Duty Mode, Fire Condition, Fault Condition, Disabled Component Mode, Test Mode, Information and Control Mode and SetUp Mode:

Table 1

| Condition | Description |
|------------------------------|---|
| Duty Mode | Condition in which the connected remote stations dist.panel not in any of the other six states and have a relationship with him (see item 6.). |
| Fire Mode | Condition in a burn in the fire area from a remote fire control panel connected to the repeater (see item 7.). |
| Fault Mode | Condition where the fault is in one of the connected remote fire control panels or dropping the connection to a remote panel (see item 8.) |
| Disabled Component Mode | Remote Panel enters Disabled component after hand surgery to disable - a fire alarm zone, addressable device, addressable controllable output or any of the connecting fire control panels. |
| Test Mode | Condition, after manual operation to place zone from remote fire control panel in "Test". |
| Information and Control Mode | Repeater enters Information and Control Mode of the main menu of Duty Mode, Fire condition, Fault Mode (without fatal error), Test and Disabled component (see item 9). In this condition, displays information about the remote panel and connected fire panels and control data are entered. |
| SetUp Mode | The repeater enters setup activation submenu "Setup" from the Information and Control Mode (see item 10). These may set configuration repeater parameters. |

In any moment the repeater can be in any of the above conditions/modes, or in a random combination of Fire condition, Fault condition, Disabled component, Test mode and Information and Control mode. Duty Mode, SetUp Mode and Remote Control Mode can not be combined with another mode:

- The repeater enters Duty Mode after all other conditions are exited.
- When the repeater enters SetUp Mode or Remote Control Mode it exits all other conditions.

The conditions of the repeater and their corresponding indication are shown in Table 2.

Table 2

| Conditions of the fire control panel | Indication |
|--|---|
| <i>All conditions - The fire control panel is power supplied</i> |  <i>Indicator Power supply – continuous green light</i> |
| <i>Fire condition</i> |  <i>Common indicator Fire condition – flashing red light</i> |
| Dedicated led indication per remote fire zone |  <i>Continues red light</i> |
| <i>Fault condition - All faults except for Battery Low</i> |  <i>Common indicator Fault condition – continuous yellow light</i> |
| <i>Fault condition – System error</i> |  <i>Indicator System error - continuous yellow light</i> |

| Conditions of the fire control panel | Indication |
|---|--|
| <i>Fault condition - Fault in mains supply</i> |  <i>Indicator Fault in mains supply - continuous yellow light</i> |
| <i>Disabled component - Disabled zone, addressable device or monitored output</i> |  <i>Indicator Disabled component - continuous yellow light</i> |
| <i>Test condition</i> |  <i>Indicator Test – continuous yellow light</i> |
| <i>Fire condition</i> | <i>Local sounder – discontinuous signal: 0.5 s sound, followed by 0.5s break</i> |
| <i>Fault condition - All faults except for Battery Low</i> | <i>Local sounder – discontinuous signal: 1 s sound, followed by 1 s break</i> |
| <i>Fault condition - Low battery</i> | <i>Local sounder – discontinuous signal: 1 s sound, followed by 3 s break</i> |

5.3. Buttons for control and indication

Table 3 presents the basic means of control.

Appendix 1 shows the front panel of the repeater IFS7002R.

Table 3

| Means of control | Condition of the repeater | Access level | Operation |
|--|--|-------------------------|--|
| Button <i>Reset Fire</i>  | Fire condition | Level 2 | To exit the Fire condition |
| Button <i>Fire condition stage II</i>  | Fire condition, phase <i>Fire condition stage I</i> | Levels 1 and 2 | To force transition to phase <i>Fire condition stage II</i> |
| Button <i>Outputs</i>  (no suppressed outputs) or  (suppressed outputs) | Fire condition | Level 2 | - Upon activated outputs for fire condition – to suppress the outputs - If no outputs for fire condition are activated – to activate all suppressed outputs |
| Button <i>Inspection</i>  | Fire condition, phase <i>Fire condition stage I</i> | Levels 1 and 2 | To add time period for inspection |
| Button <i>Stop Alarm</i>  | Fire condition and Fault condition (with the exception of Fatal Fault Condition) | Levels 1 and 2 | To suppress the local sounder |

| Means of control | Condition of the repeater | Access level | Operation |
|--|---|----------------|--|
| Button <i>Menu</i>  | Duty mode, Fire condition, Fault condition (with the exception of Fatal Fault Condition) Test mode and Disabled component | Level 1 | To enter Information and Control mode |
| Button <i>Enter</i>  | Information and Control Mode | Level 1 | To enter the selected menu |
| | Information and Control Mode | Level 2 | - To enter the selected menu; - To execute the selected command; |
| | SetUp Mode | Level 3 | - To save a modified parameter |
| Button <i>Down</i>  | Information and Control Mode | Levels 1 and 2 | To display the next element of the menu |
| | SetUp Mode | Level 3 | |
| Button <i>Up</i>  | Information and Control Mode | Levels 1 and 2 | To display the previous element of the menu |
| | SetUp Mode | Level 3 | |
| Button <i>Exit</i>  | Information and Control Mode | Levels 1 and 2 | To exit Information and Control Mode |
| | SetUp Mode | Level 3 | To exit SetUp Mode and reset the system |
| Button <i>Cancel</i>  | Information and Control Mode | Levels 1 and 2 | - To exit a function without saving changes in the parameter; the command will not be executed; - To exit the current menu and to move to an upper hierarchy menu |
| | SetUp Mode | Level 3 | |
| Button <i>Change</i>  | Information and Control Mode | Levels 1 and 2 | To change the element to its next permissible value |
| | SetUp Mode | Level 3 | |
| Button <i>Move down</i>  | Fire condition and Information and Control Mode | Levels 1 and 2 | Next element (if any are available) from the left window |
| | SetUp Mode | Level 3 | |
| Button <i>Move up</i>  | Fire condition and Information and Control Mode | Levels 1 and 2 | Previous element (if any are available) from the left window |
| | SetUp Mode | Level 3 | |

| Means of control | Condition of the repeater | Access level | Operation |
|---|------------------------------|----------------|---|
| Button <i>Page down</i>  | Information and Control Mode | Level 1 | Next page from the left window |
| Button <i>Page up</i>  | Information and Control Mode | Level 1 | Previous page from the left window |
| Button <i>To the right</i>  | Information and Control Mode | Levels 1 and 2 | - To move the cursor one position to the right; - Next element (if any are available) from the left window |
| | SetUp Mode | Level 3 | To move the cursor one position to the right; |
| Button <i>To the left</i>  | Information and Control Mode | Levels 1 and 2 | - To move the cursor one position to the left; - Next element (if any are available) from the left window |
| | SetUp Mode | Level 3 | To move the cursor one position to the left |
| Button <i>Clear</i>  | Information and Control Mode | Levels 1 and 2 | To delete a character pointed by the cursor (if no character is pointed, the first character to the left of the cursor will be deleted) |
| | SetUp Mode | Level 3 | |
| Buttons with digits, characters and symbols | Information and Control Mode | Levels 1 and 2 | To insert a symbol to the left of the cursor |
| | SetUp Mode | Level 3 | |

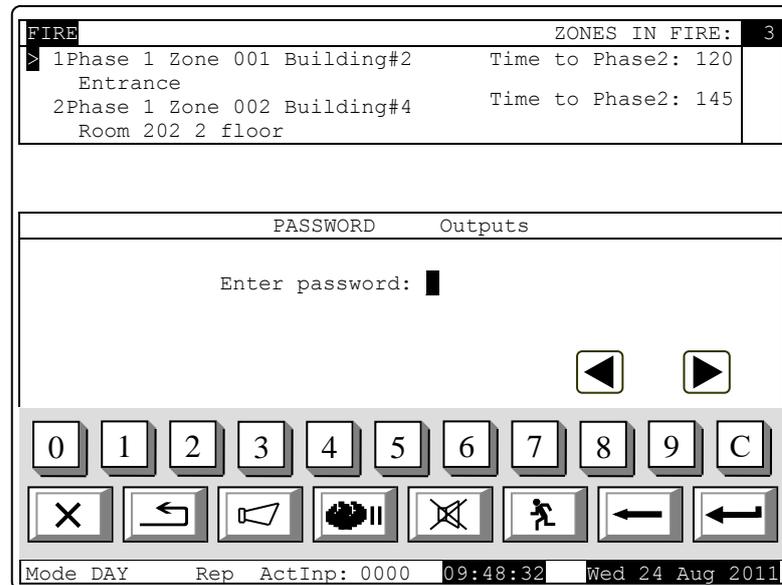
5.4. Menu navigation

5.4.1. Buttons

Panel menus are organized in “tree structure”.

- Accessing the menu - button  (“Menu”).
- Move between menu items:
 - Buttons  (“Up”) and  (“Down”), when the menu is displayed as a window overlooking the lower left corner of the screen.
 - Buttons  (“Move Up”) and  (“Move Down”), when the menu is displayed in the middle of the screen.
 - Buttons  (“Page Down”) and  (“Page Up”) – next or previous page from the left window.
- To enter the selected menu – lower level  (“Enter”).
- Return to previous menu - higher level  (“Cancel”).
- Exit to the original state - button  (“Exit”) or button  (“Cancel”) to exit from the main (top) menu.

5.4.2. Enter a password for levels 2 and 3



1. Password is entered with the numeric keys - 0 ÷ 9.
2. Maximum password length – 10 digits.
3. Entering a number after tenth position – not valid.
4. Confirm the entered password – button .
5. Exit from screen - buttons  (“Exit”) or  (“Cancel”).
6. If the entered password is incorrect, the cursor “█” is positioned in the first position of the password re-entry.
7. If the entered password is correct, enter the menus and functions with the access level 2 and 3.
8. Number is inserted into the cursor position „█”.
9. Buttons  and  move the cursor to the input numbers without changing them.
10. Wrong number is erased in the following order:
 - Cursor „█” moves over erroneous number with buttons  and .
 - Erroneous digit is deleted by pressing button .
 - If no number under the cursor „█”, button  delete number in front the cursor.
11. Insert digit omitted:
 - The cursor „█” moves to the position where you will insert digit with buttons  and .
 - Enter forgotten digit (old digits shift one position right).

6. Duty Mode

6.1 Description

The repeater is in Duty Mode, when it is not in any of the rest eight possible conditions (There are no Fault condition, Fire conditions, Test conditions or disabled components in the system and there is a connection with all fire control panels, with which it communicates).

6.2. Indication

6.2.1. LED and sound indication

In Duty Mode the green LED indicator is activated  (Power supply). The local sounder is off.

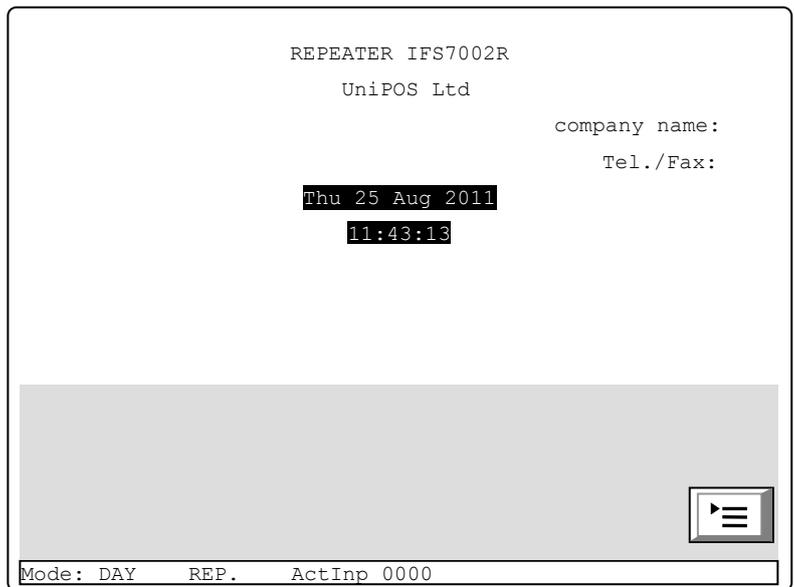
6.2.2. Text message

The display shows the logo of the company-producer, information on the current local time and the mode of operation of the fire control panel (DAY or NIGHT), the mode of control (Rep – control of the repeater or RemX – control of a remote panel, where X is the remote panel’s address).

In REP mode the displays shows information from all fire control panels connected with the repeater.

In RemX mode it is shown only information about fire control panel „X”.

On the display is possible to edit 2 rows of 19 symbols, user-defined from menu 'setup > panel configuration'



6.3. Using the keypad

| Button | Access Level | Action | More information |
|--|--------------|--|--|
|  "Menu" | All | To enter Information and Control mode (item.9) | Login menu "Lists": <ul style="list-style-type: none"> - Faults - Repeater configuration - Repeater parameters - Choice Rep/Remove Panel |

7. Fire condition

7.1. Description

The repeater enters Fire condition after a fire detector has been activated in one of zones of the Fire control panel/panels connected with it.

The repeater can be in Fire condition:

- One or more zones from one remote fire control panel.
- One or more zones from different remote fire control panels.

To exit this condition press button  ("Reset Fire") (Access Level 2 or higher).

The repeater remains in Fire condition until all Fire conditions in each of the fire control panels connected with it is reset.

The dedicated zone LED indicator will be activated 1 2 3 4 5 6 7 8, in case that remote zone in fire is in the range from 1 to 8.

7.2. Indication

7.2.1. LED and sound indication

In this condition the common light indicator illuminates in red flashing light  (Fire condition) and the zone dedicated LED.

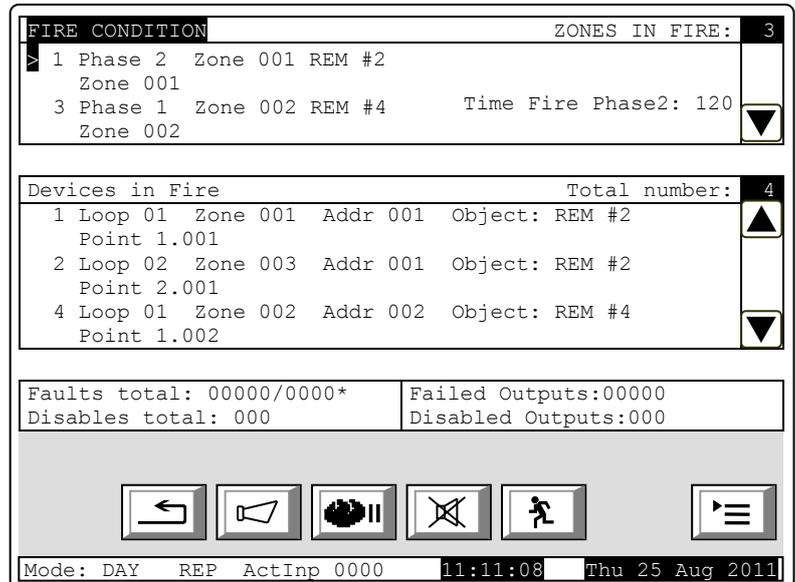
The local sounder produces discontinuous signal (0,5s sound, 0,5s break), if the device has not been suppressed by button  (Stop Alarm).

7.2.2. Text messages

For this condition the display is divided into three text panels, shown on fig.1

- The first panel displays information on zones and on the fire control panels in fire condition. A flashing heading with the text FIRE and the total number of zones in fire condition appear [1].

The panel is subdivided into two text fields, each providing two lines. The first line displays information on the first zone and the fire control panel in fire condition, the second line provides information on the last zone and the fire control panel for the repeater is in fire condition.



The text fields provide the following information:

- The sequence number of the indicated fire condition (pos.2, fig.2).
- The phase of Fire condition detected by the fire control panel in this particular zone (pos.3, fig.2).
- The zone number (pos.4, fig.2).
- The address of the fire control panel in fire condition (pos.5, fig.2).
- The remaining time in seconds before the fire control panel proceeds to phase Fire condition stage II (indicated only in Fire condition stage I) (pos.6, fig.2).
- Text message for the respective zone (pos.7, fig.2).

If the fire control panel has entered Fire condition in more than two zones, the rest of the text messages for fire condition are suppressed. They can be displayed in the first (upper) field by pressing the buttons on the right side  and .

- The second panel provides information on devices in fire condition.

In the head part is displayed the total number of devices in fire condition (pos.8, fig.2).

The panel itself is subdivided into three text fields, each providing two lines. The upper two-line field displays information on the first device that has detected fire condition; the middle two-line field displays information on the second device in fire condition, the bottom two-line field – information on the last device.

The text fields provide the following information:

- The sequence number of the device in fire condition (pos.9, fig.2).
- The fire alarm loop where the device is integrated to (pos.10, fig.2).
- The zone number (pos.11, fig.2).
- The device address in the fire alarm loop (pos.12, fig.2).
- The remote fire control panel address that is in Fire condition (pos.13, fig.2).
- Text message for the respective device (pos.14, fig.2).

The second line of each field displays text messages relevant to this particular device. If more than three devices are activated due to fire condition, the rest of the messages are suppressed. However, they can be displayed in the first two upper fields, by pressing the buttons on the right side.

- The third panel (the bottom one) displays information on the numbers of faults and disables – total number and for the outputs (monitored outputs and addressable output devices). (pos.15, fig.1).

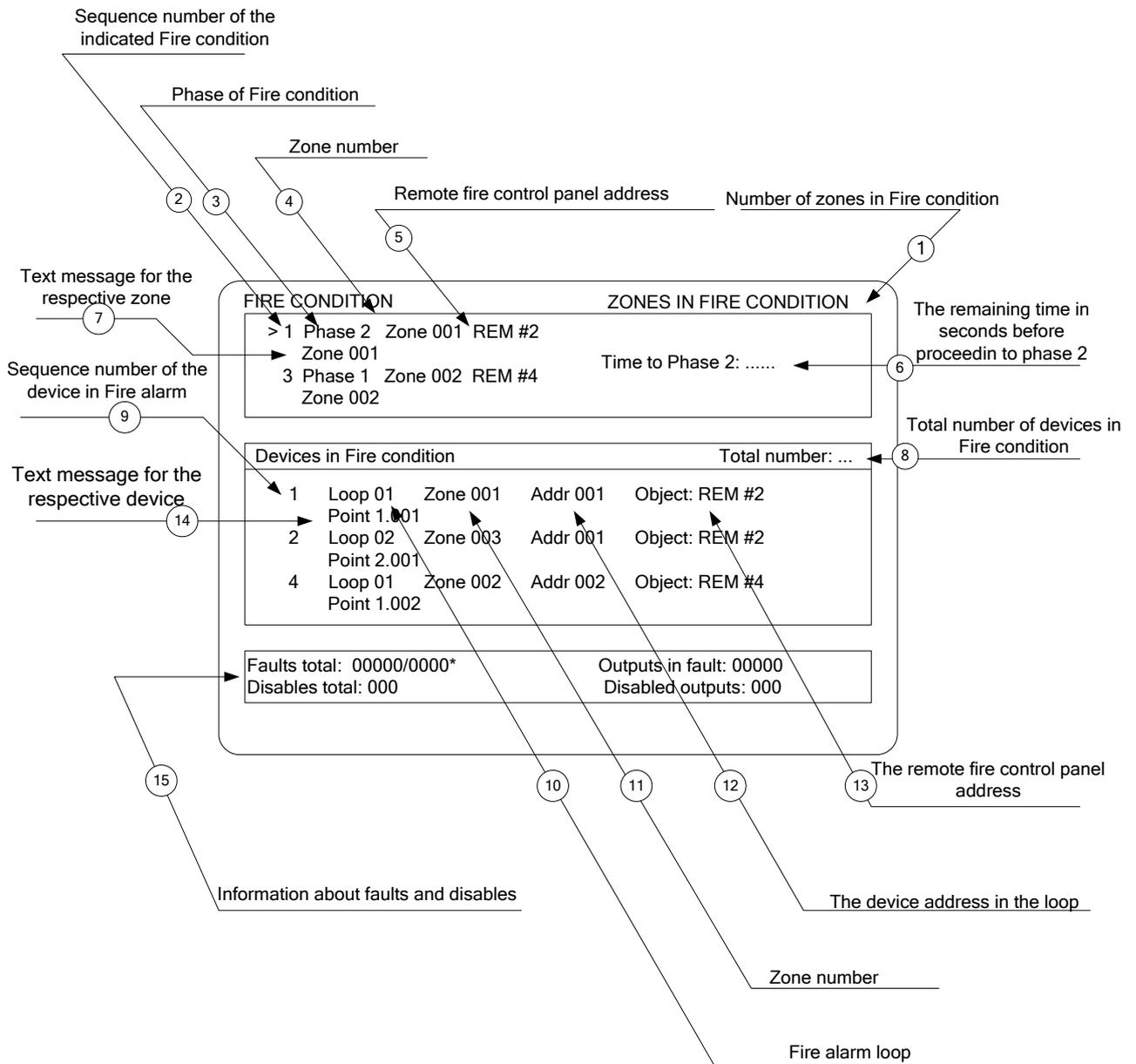


Fig.2

7.3. Using the keypad

| Button | Access Level | Actions | Description |
|---|--------------|--|---|
|  "Inspections" | All | Acts on is indicated in the box above the display "Fire". Increases the time between "Fire I degree" and "Fire II degree" of the set time zone reconnaissance. | The operation can be performed only once for each zone in Fire condition stage I. The button is removed: <ul style="list-style-type: none"> - After activation of a concrete zone. - All zones entering in Fire condition stage II. |
|  "Stop Alarm" | All | Press it once to turn off the local sounder of the repeater however the button remains active on the display. Press it twice to suppress the activated local sounders of the connected fire control panels. | The button is removed: <ul style="list-style-type: none"> - when pressed twice; - when the fire control panels connected to the repeater exit Fire condition. Button is active again when registering new fire or fault in connected fire control panels. |
|  "Fire Condition stage II" | All | Press the button to force transition from phase Fire condition stage I to phase Fire condition stage II. | The button act once. The button is removed after activation. |
|  "Outputs" | 2, 3 and 4 | Suppress/enable activation of the outputs for Fire condition. Password is required for Level 2 (item 5.4.2) <ul style="list-style-type: none"> • Where activated outputs for Fire condition are available – these outputs will be suppressed. • Where activated outputs for Fire condition are not available – the suppressed outputs will be activated. | Addressable outputs, activated by the inputs, can not be suppressed. The buttons have opposite function (suppressing/enabling) and in this aspect only one of them is always shown on the display. Suppressed outputs for Fire condition are triggered when: <ul style="list-style-type: none"> - entering in Fire condition in a new zone; - transition from Fire condition stage I to Fire condition stage II. If the panel is in "Information and Control Mode" and meanwhile there is a fire event, the button  will display the information for the fire event. |
|  "Reset Fire" | 2, 3 and 4 | Reset the remote fire control panel. | Acts on is indicated in the box above the display "Fire". Resetting the fire is made in connected panels and zones. The repeater remains in Fire condition until all Fire conditions in each of the fire control panels connected with it is reset. |

| | | | |
|--|------------|--|---|
|  "Move Down" and "Move Up" | All | Use buttons to select the fire control panel that will exit the Fire condition. Show repressed messages in fire zones. Visualization is a field of characters for the first window on the LCD. Show messages suppressed for devices in a fire. Visualization is in the first two fields of the second window on the LCD. | Buttons are active only in the presence of suppressed messages, ie: - Serial number of the fires are not consistent; - Serial numbers of devices in the fire were not consistent. |
|  "Menu" | 2, 3 and 4 | Press the button to enter Information and Control mode. The mode uses the second and the third panel of the screen for Fire condition. | |
|  "Exit" | 2, 3 and 4 | When Fire condition is in combination with Information and Control mode, press the button and the repeater exits Information and Control mode and on the display appear all three panels of the screen for Fire condition.. | |

7.4. Example

In a network built of 2 repeaters IFS7002R and 5 fire control panels IFS7002 (Appendix4) have been reported as a response detectors.

In a fire condition are different zones of the plants in the "Building#2" and "Building#4".

Remote panels IFS7002R, located in the objects "Security" and "Transport gate" are in Fire condition stage I.

The indication has the following:

- Indicator  ("Fire") lights blinking red light.

- The local sounder produces an intermittent signal (0,5 s sound, 0,5 s pause).

- Text information:

- Total number of fires - 3;
- First registered in entrance of Building#2. Phase-fire first. Time left to fire into stage II - 120 seconds
- Last registered in a corridor 2nd floor of Building # 4. Phase of fire - first. Remaining time to fire stage II - 145 seconds.

| | |
|--|--|
| FIRE CONDITION > 1 Phase 1 Zone 001 Building #2 Entrance 3 Phase 1 Zone 002 Building #4 Korridor 2 floor | ZONES IN FIRE CONDITION: 3 Time to Phase 2: 120 Time to Phase 2: 145 |
| Devices in fire condition 1 Loop 01 Zone 001 Addr 001 Object: Building #2 Point 1.001 2 Loop 02 Zone 003 Addr 001 Object: Building #2 Point 2.001 4 Loop 01 Zone 002 Addr 002 Object: Building #4 Point 1.002 | Total number: 4 |
| Faults total: 00000/0000* Outputs in fault: 00000 Disables total: 000 Disables outputs: 000 | |

- Suppressed message for a fire, occurred between 1 and 3 (numbers visualized fires are not consistent, ie there is a fire with number 2, whose release is suppressed).
 - Total number of devices in the fire – 4.
 - Positions 1, 2 and 4 describe the specific device in a fire (address, outline, area, etc.).
 - Depressed message device in the fire, between devices with serial numbers 2 and 4 (visualized unit numbers are not consecutive. The display can be seen the first two and last able fire alarm);
- The third text window: information introduced disables and faults - in this case there are no disables

and no faults.

Possible actions are:

- If the access level 1:

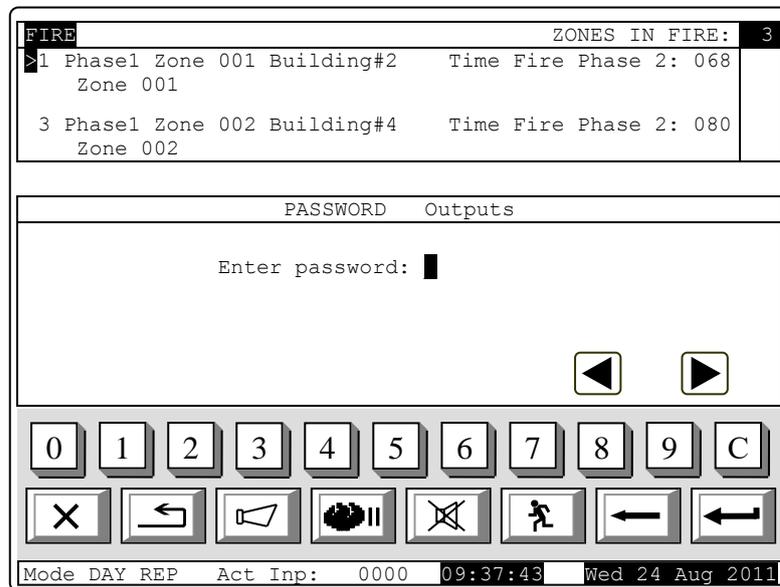
- View suppressed messages for fire - buttons  ("Move Up") and  ("Move Down").
- View suppressed messages for device in fire - buttons  ("Move Up") and  ("Move Down").
- Add time intelligence headquarters visualized marker for selection against  - button  ("Inspection").
- Suppression of local sounder - button  ("Stop Alarm").

- At Access level 2, after entering a password:

- All actions by the access level 1.
- Force removal of connected fire control panel capable of "Fire." Reset only fire panel, visualized

marker for selection  - button  ("Reset Fire") (fire in Building#2 – Entrance).

The repeater remains in Fire condition until all Fire conditions in each of the fire control panels connected with it is reset .



- Forced transition to Fire stage II - button  ("Fire stage II").
- Suppress/enable activation of the outputs for Fire condition  and  ("Outputs"). In case no suppressed outputs. Button  is active. If outputs are suppressed, will be active button .

- Exit - buttons  ("Exit") or  ("Cancel"). If the fire condition is combined with Information and Control Mode, priority is Fire condition. It always is visualized.

- At Access level 3 and 4, after entering a password:

- All actions by the access level 1 and 2.

8. Fault Condition

8.1. Description

The repeater enters Fault Condition when any of the events below have been registered:

- Fault in remote panel:
 - Fatal system error.
 - Fault in a processor programme.
 - Fault in the communication with the fire control panel.
 - Fault in the real time clock.
 - Fault in the external memory.
- In connected to it a fire control panel:
 - Fault in the communication with the fire control panel.
 - Fault in the real time clock.
 - Fault in the external memory.
 - Fault in a fire control panel.
 - Fault in a module.
 - Fault in a loop – a short circuit or a break.
 - Loop not initialized.
 - Higher number of devices in the fire alarm loop.
 - Fault in a zone – upon detection of fault condition in a device, integrated in the zone.
 - Removed device.
 - Fault condition in a device.
 - Activated isolator of a device.
 - Activated isolator at the Power loop of a device.
 - Contaminated fire detector (for optical –smoke detectors).
 - Communication error.
 - Device not initialized (detected new device in a loop).
 - Exchanged devices.
 - Different identification number of a device.
 - Different device type.
 - Different device class.
 - Fault in a monitored output – short circuit or break.
 - Fault in the mains supply.
 - Fault in the backup batteries supply.
 - Short circuited ground wire.
 - Fault in the loops supply.
 - Fault in external devices supply.
 - Low power supply – low backup battery during fault in the mains supply.

Fault condition is indicated by LEDs indicators and a text message on the LCD display.

8.2. Indication

8.2.1. LED and sound indication

LED display is a combination of three indicators, illuminated with a constant yellow light:

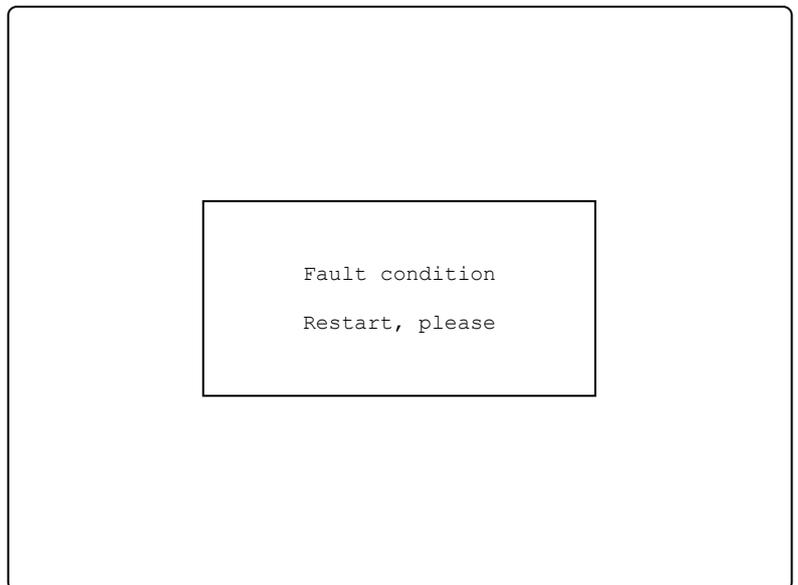
-  "Fault condition"
-  "System error"
-  "Fault in main supply"

| LEDs indication | Sound indication | Fault |
|--|-------------------|--------------------|
|  "Fault" and | Continuous signal | Fatal system error |
|  "System error" | | |

| | | |
|--|---|----------------------|
|  "Fault" | Discontinuous signal (1s sound, 1s break) | Fault in main supply |
|  "Fault in main supply" | | |
|  "Fault" | Discontinuous signal (1s sound, 3s break) | Fault low supply |
|  "Fault" | Discontinuous signal (1s sound, 1s break) | All other faults |

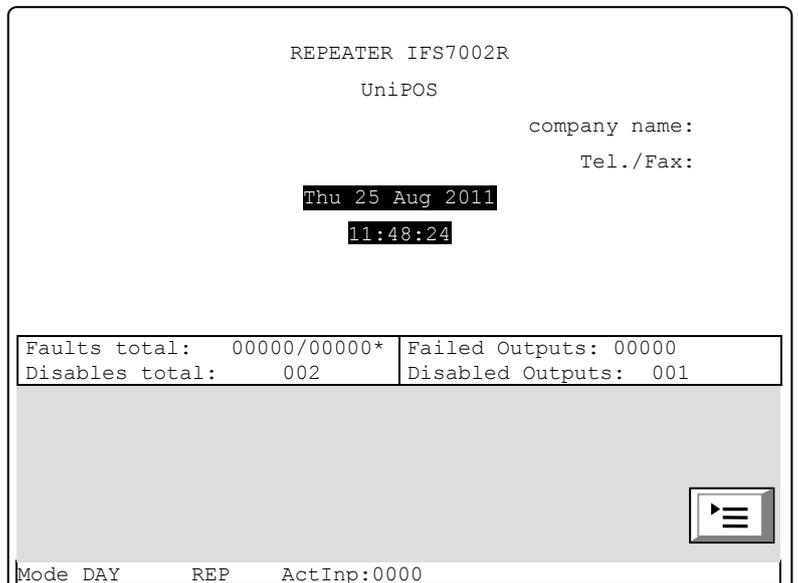
8.2.2. Text messages

- Upon fatal system errors the following information screen is displayed (the first line of the text messages is information intended for the service staff):



The screen suppresses all other text indications and can not be suppressed.

- For all other fault conditions a table, containing information on the number of fault events (and the number of disabled devices) is displayed. The first line of the tables' left column displays the total number of fault conditions; the first line of the table's right column displays only the number of faults in outputs (monitored outputs and addressable output devices):



To display the text message for each fault condition, enter Information and Control Mode (see section [9.2.1](#)).

8.3. Using the keypad

None of the buttons is active upon fatal fault condition. For all other fault conditions 2 buttons are being supported.

| Button | Access Level | Action | Description |
|--|--------------|--|---|
|  "Stop Alarm" | All | Press the button once to switch the local sounder of the repeater. The button on the screen is active too. Press the button again to switch off the local sounder of the connected fire control panels to the repeater and the button disappears from the display. | The button is removed when: - Twice pressing. - Elimination of faults. Button is active again when registering new fire or fault in connected fire control panels. |
|  "Menu" | All | Press the button to enter Information and Control Mode. | |

Where the fire control panel operates in combination of other conditions, their buttons are active too.

8.4. Example

In a network built of 2 repeaters IFS7002R and 5 fire control panels IFS7002 ([Appendix4](#)) are registered following faults:

- Fault in repeater IFS7002R ("Security") - Failure in communication with the remote fire control panel.
- Failure in zone of connected fire control panel IFS7002 ("Building#4").

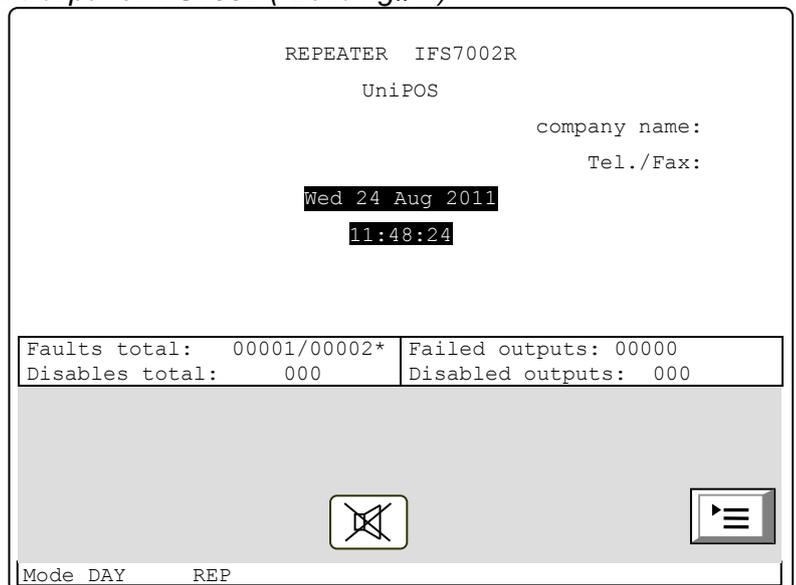
The indication has the following:

- Indicator  ("Fault") lights a constant yellow light

- The local sounders produces an intermittent signal (0,5 s sound, 0,5 s pause).

- Text information:

- Faults total:
 - one in the repeater
 - two in the connected fire control panel/s
- Disables total - no
- Failed outputs - no
- Disabled outputs – no



- Active buttons -  ("Stop Alarm") and  ("Menu")

- Suppression of local sounder on the repeater - button  ("Stop Alarm") – single pressing. Local sounder in Building#4 remains on.
- Double pressing button  ("Stop Alarm") excludes local sounder in Building#4.
- Press the button  ("Menu") to enter Information and Control Mode. In this state, active buttons to display additional information needed to faults the repeater and connected it to the remote fire control panel/panels. All levels of access can be viewed lists damage occurred. In this state displays specific information about panels and devices to malfunction. Active are keys for the menus.

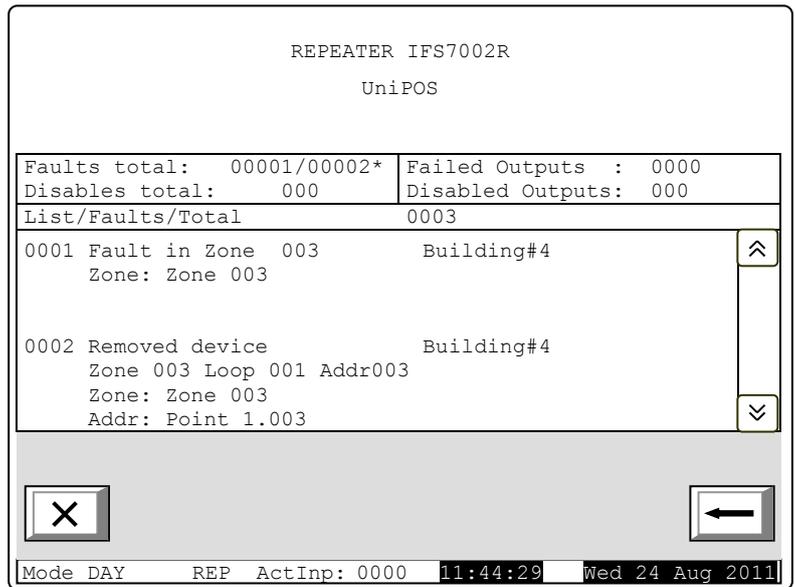
Menu "List / Faults / Total" ([Appendix 2](#)) provides specific information about any damage. They are displayed in order of their occurrence. The screen shows information about this example:

Faults total – 3.

The first fault is in Zone 003 of Building #4.

The second fault is removed device, address..., zone... and fire control panel (actually, as it keeps device is in a zone, the damage it appears as a fault zone).

To see the damage using third button  ("Page Down") to go to the next page. On each screen showing two error messages.



Exit from menu "List/Faults/Total" - button  ("Exit") or  ("Cancel").

9. Information and Control Mode

9.1. Description

Information and Control Mode provides:

- Display information about the repeater and the fire control panels connected to it.
- Enter control data.

To enter Information and Control Mode, press button  ("Menu") on the screen for Duty Mode, Fire condition, Fault condition (with the exception of the screen for fatal error), Test Mode and Disabled component.

The screens visualized on the display are organized in a tree structure, containing subordinate menus ([Appendix 2a](#)).

Repeater is in this state until:

- Manual operation for exit - button  or .
- Entering the repeater in the Fire condition.

9.2. Indication

9.2.1. No specific LEDs or sound indication is provided for Information and Control mode.

9.2.2. Text messages

Working in Information and Control mode requires visual representation of various menus, screen and functions. The exact text indication is described in section 9.4.

9.3. Using the keypad

Available buttons:

| Button | Access Level | Action |
|---|--------------|--|
|  "Menu" | Level 1 | To enter Information and Control mode |
|  "Enter" | Level 1 | To enter a selected menu |
| | Level 2 | - To enter a selected submenu - To execute a selected command |
| | Level 3 | - Store the modified parameter |

| Button | Access Level | Action |
|--|----------------|--|
|  "Down" | Levels 1 and 2 | To display the next menu item |
| | Level 3 | |
|  "Up" | Levels 1 and 2 | To display the previous menu item |
| | Level 3 | |
|  "Exit" | Levels 1 and 2 | To exit Information and Control mode |
| | Level 3 | To exit Information and Control mode and Reset the system |
|  "Cancel" | Levels 1 and 2 | - To exit a function without saving the changed parameters (or command execution without) - To exit current submenu and go to higher level menu |
| | Level 3 | |
|  "Change" | Levels 1 and 2 | To change an element to its next permissible |
| | Level 3 | |
|  "Move Down" | Levels 1 and 2 | Next elements (if any are available) from the left window |
| | Level 3 | |
|  "Move Up" | Levels 1 and 2 | Previous element (if any are available) from the left window |
| | Level 3 | |
|  "Page Down" | Level 1 | Next page from the left window |
|  "Page Up" | Level 1 | Previous page from the left window |
|  "To the right" | Levels 1 and 2 | - To move the cursor one position to the right - Next element (if any are available) of the left window |
| | Level 3 | To move the cursor one position to the right |
|  "To the left" | Levels 1 and 2 | - To move the cursor one position to the left - Previous element (if any are available) of the left window |
| | Level 3 | To move the cursor one position to the left |
|  "Clear" | Levels 1 and 2 | To delete a character pointed by the cursor (if characters is pointed, the first character to the left of the cursor will be deleted) |
| | Level 3 | |

| Button | Access Level | Action |
|---|----------------|--|
| Buttons with digits, characters and symbols | Levels 1 and 2 | To insert a character/symbol to the left of the cursor |
| | Level 3 | |

Where the repeater operates:

- In combination of Information and Control mode and Fault condition, button  (“Stop Alarm”) is active too.
- In combination of Information and Control mode and Fire condition, the buttons  (“Stop Alarm”),  (“Outputs”) and  (“Inspection”) are active, and at Access Level 2 is active button  (“Reset Fire”).

9.4. Menu Lists

When you enter Information and Control Mode, transition to the first menu is being carried out. The first menu contains three subordinate menus, requiring separate access levels:

- Lists – Access Level 1.
- System functions – Access Level 2.
- Setup – Access Level 3.

This instruction manual describes the menus related to the control and setup of the repeater.

When choosing a fire control panel to be setup, the menus and functions comply with the ones described in the Instruction manual of the fire control panel (see “Instruction manual IFS7002”).

In the current instruction manual, with with the grey font are coloured menus and functions, which are active in setup mode of remote/s panel/s from the repeater.

SetUps of remote fire control panels that cannot be done from the repeater panel are:

- Setup/Loops/Loop 1/ Device parameters;
- Setup/Loops/Loop 1/ Check;
- Setup/Loops/Loop 1/Manual addressing;
- Setup/Initialization/Re-addressing;
- Setup/Initialization/Check;
- Setup/Checks/Monitored outputs;
- Setup/Checks/Fire control panel relay outputs;
- Setup/Checks/Address outputs;
- System functions/Zones in test;
- Lists/Messages from inputs;

9.4.1. Menu “Lists”

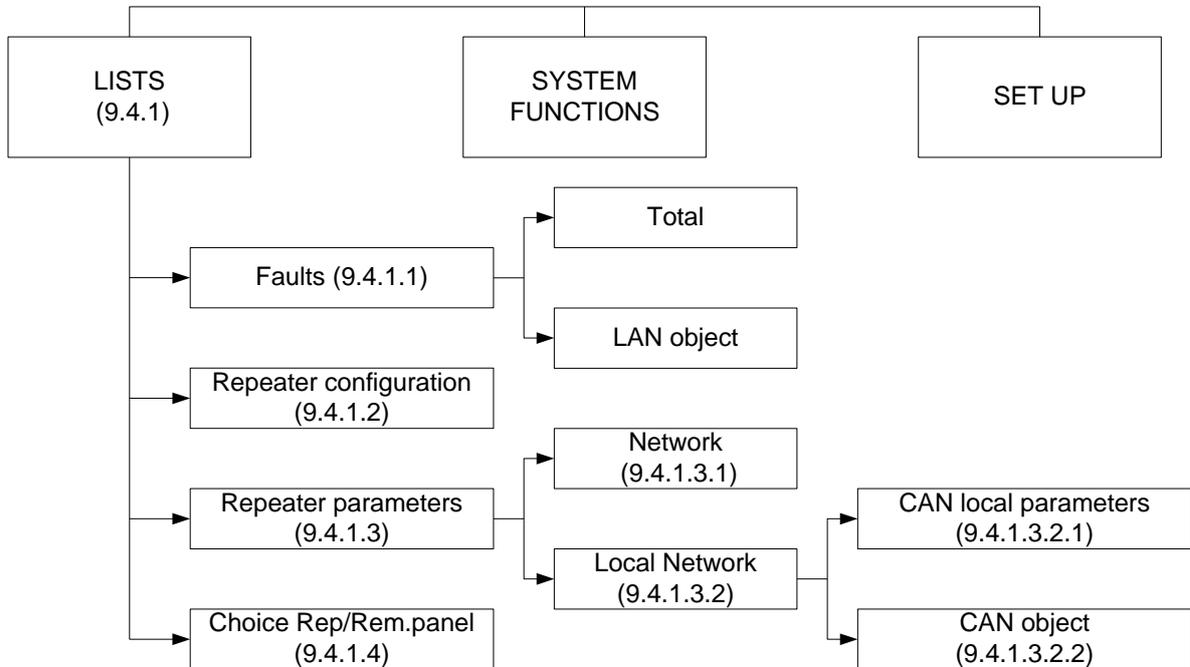
The menu displays detailed information about:

- Faults in the repeater and connected objects.
- Repeater configuration.
- Network parameters.
- Selected mode.

Menu *Lists* contains the following subordinate menus and information screens:

- Menu “Faults”
- Menu “Disables”
- Menu “Tests”
- Menu “Messages from the inputs”
- Menu “Activated outputs”
- Screen “Repeater configuration”

- Menu "Repeater parameters"
- Menu "Loops"
- Menu "Zones"
- Menu "Devices status"
- Menu "Inputs"
- Menu "Archive"
- Menu "Choice Rep/Rem control panel"



9.4.1.1. Menu "Faults"

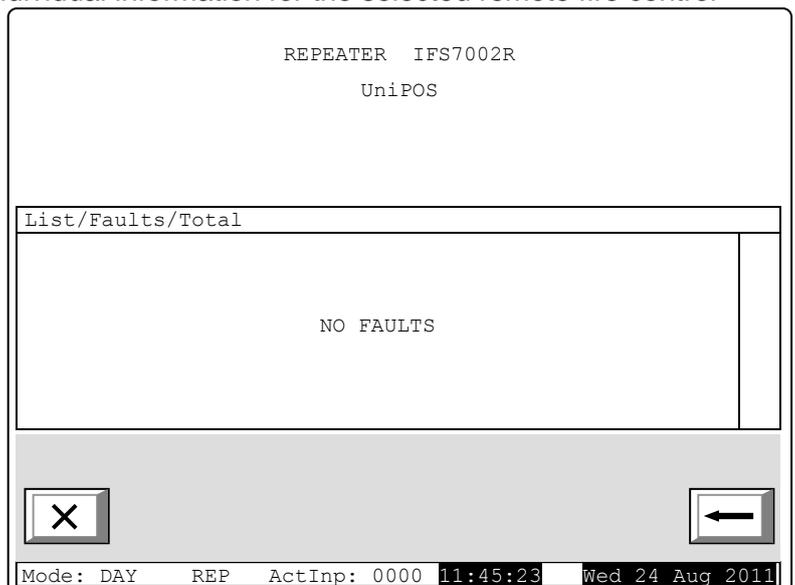
Use the menu to display detailed information for faults in the repeater and the fire control panels connected to it.

Menu *Faults* contains the following subordinate menus:

- Menu "Total" – displays information for all fault conditions
- Menu "LAN objects" – to display individual information for the selected remote fire control
 - The menu "All" is with two

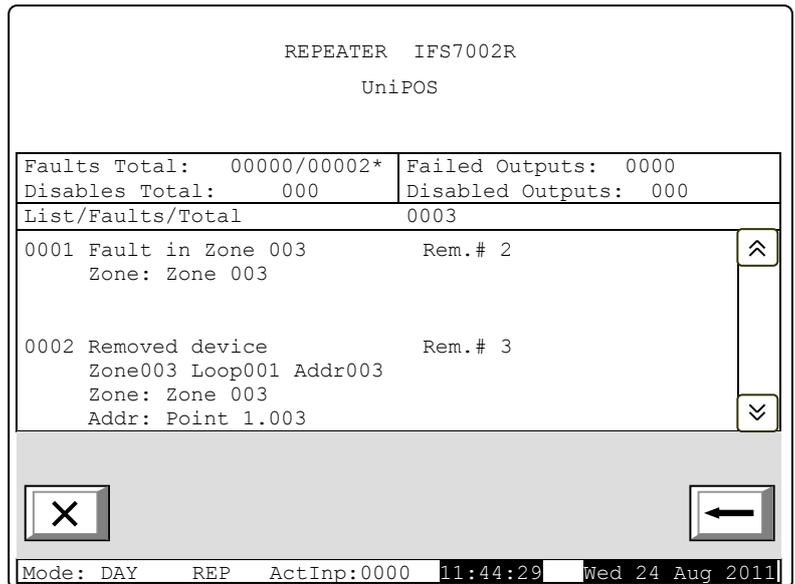
variants:

When there are no faults (or faults from the searched type) if you choose menu "All" on the display appears:



When there are faults , if you choose menu „All“ on the display appears fault informations about all remote panels. Each message can be displayed in a few lines – from 1 to 4. It brings out the following information:

- Text for the type of the fault (this information is mandatory).
- Information for the device (zone, loop, address if it is an addressable device).
- The fire control panel, where the event has occurred.
- Text message for the zone – visualized if the fault condition is in an addressable fire detector.
- Text message for the device – visualized if the fault condition is in an addressable device.



Buttons  and  situated in the right panel section scroll the pages up and down – next page or previous page (if any are available). One page contains two messages for fault condition.

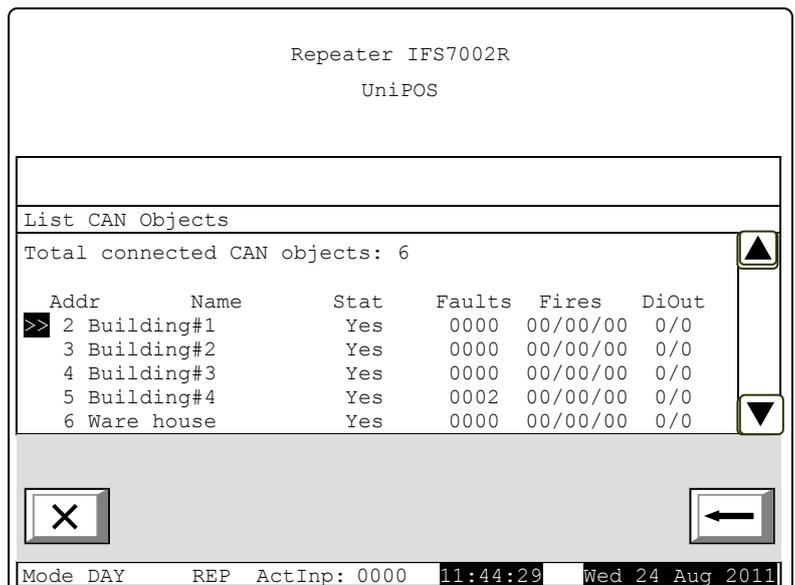
• Menu “LAN objects” gives possibility for choice of connected object, which faults to be appeared on the display.

The screen shows the connected objects and prides information:

- CAN Address
- Object Name
- Status
- Faults
- Fires
- Disabled outputs

The symbol “>>” is on position of the first remote objects.

With buttons  (“Move Down”) and  (“Move Up”) select the concrete remote panel, which faults will shown on the display.

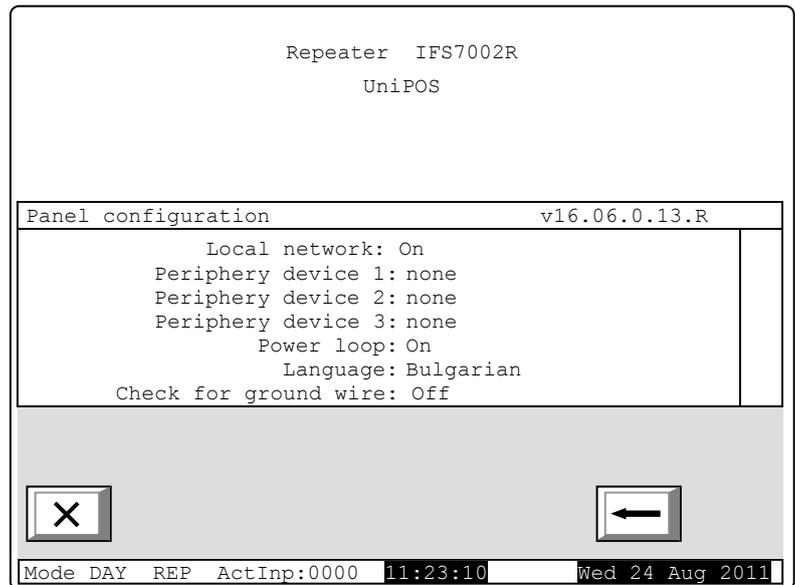


9.4.1.2. Screen “Repeater configuration”

The screen displays information associated with:

- The repeater local network condition (On or Off).
- The selected language of the text messages.
- Check for ground wire (this option is not active for the repeater).

The software version of the repeater is displayed in the right part of the heading line, for example “v16.06.0.13.R”



9.4.1.3. Menu “Repeater parameters”

Use the menu if the repeater is connected to PC or to view the parameters of the established CAN network.

The menu contains two subordinate menus:

- Menu “Network”
- Menu “Local Network”

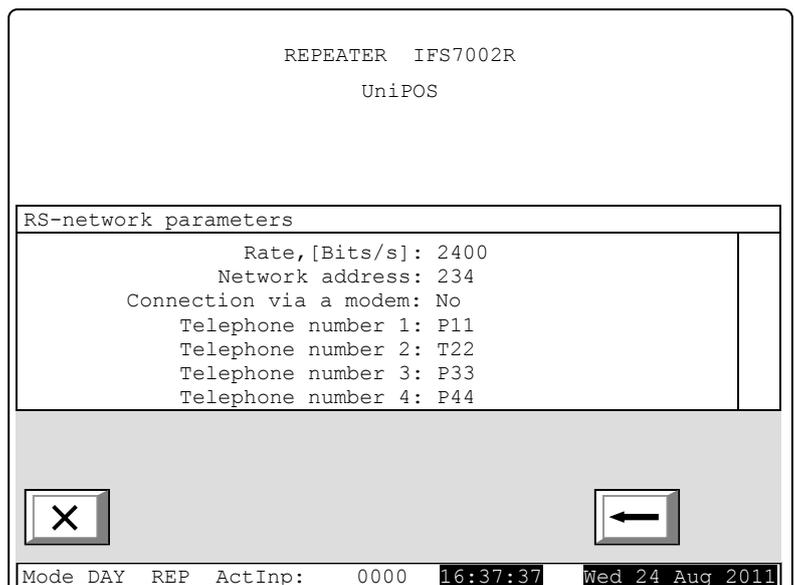
9.4.1.3.1. Menu “Network”

This menu provides information on the parameters of RS232- networks:

- Rate, [bits/s] – data exchange rate.
- Address in network.
- Connection via modem – information if the communication is executed by means of a modem. “Yes” or “No” is show on the display respectively.
- Phone number – four 15-digit phone numbers can be saved.

Use button  to select before the respective number, as an alternative, the letter:

- “P” – for impulse dialing
- “T” – for tonal dialing



9.4.1.3.2. Menu “Local Network”

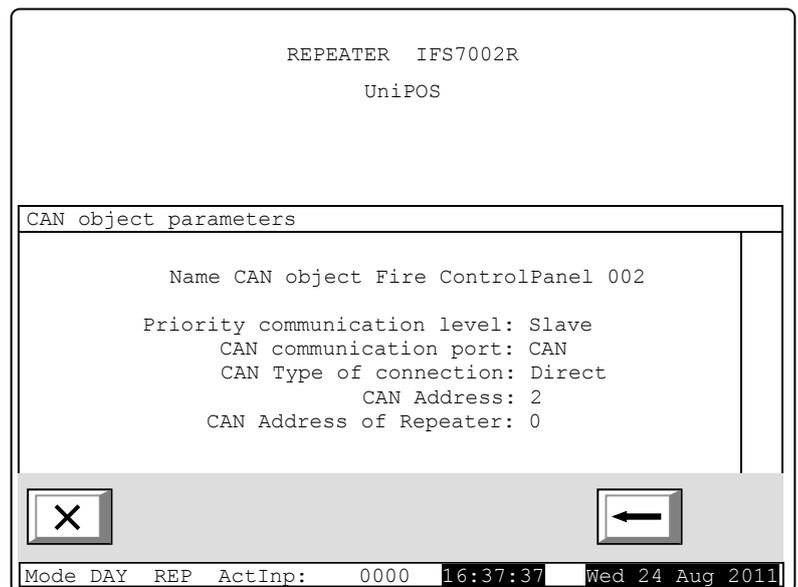
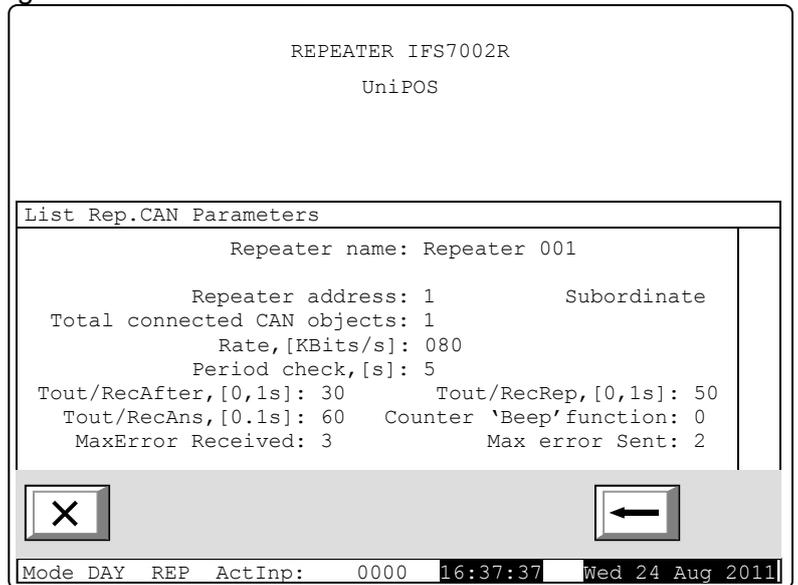
This menu provides information about the connection of the repeater in a local network with fire control panels and other repeaters.

Menu “Local Network” contains the following subordinate menus:

9.4.1.3.2.1. Menu “CAN Local

Parameters” displays information about CAN setups of the repeater.

The parameters are set in the SetUp menu.



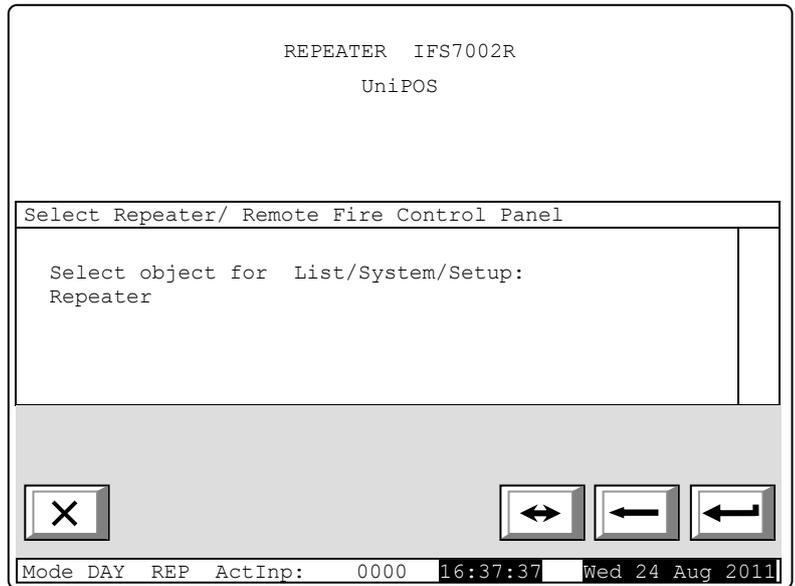
9.4.1.3.2.2. Menu “CAN Objects” – allows CAN parameters of the fire control panels connected to the repeater to be reviewed.

9.4.1.4. Menu “Select Rep/Rem Fire Control Panel”

The menu provides the option to select the fire control panel to be setup or which parameters, events or status will be reviewed.

The button  alternatively change the object for preview (example: “Security”, “Building#1”, “Building#2” and etc.) till counting of all network connected panels. During object preview change, in the left bottom part of the display shows note message “Data no saved”. The changes which were made will be accepted via

pressing of button,  after that the message “Data no saved” is cleared.



9.4.2. Menu “System Function”

The menu contains the following subordinate menus and functions:

- Disables
- Zones in test
- Set Clock
- Set Mode
- Check LEDs and Buzzer

Access to the subordinate menus is allowed at Access Level 2.

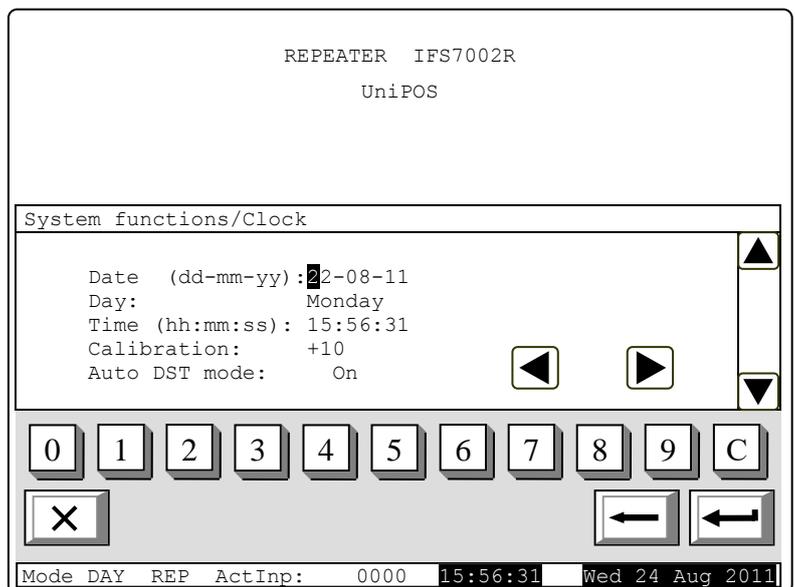
If wrong password is entered, when you press button  the digits will be deleted and the cursor will move back to the first position. If one of the 10 passwords for Access Level 2 or Access Level 3 is entered, when you press button  the menu will become active.

9.4.2.1. Function “Set Clock”

The function is used to set the real time clock of the repeater to the correct time. Enter the function to display the screen:

- Calendar date
- Day of the week
- The time
- The calibration index as per the moment when the function was activated
- automatic daylight-saving-time (DST) mode enabled/disabled

The cursor is located over the first position in the first line (Date).



Active buttons are:

| Button | Action |
|--|---|
|  "Move Down" and  "Move Up" | Move between the lines on the screen. |
| Buttons with digits | Entering a number in the cursor position. |
|  "To the left" and  "To the right" | To move the cursor one position to the left (right). |
|  "Cancel" | To exit a function without saving the changed parameters and go to higher level menu. |
|  "Exit" | To exit from screen and System functions. |
|  "Clear" | To delete a character pointed by the cursor. |
|  "Enter" | To save parameters. |

Possible actions are:

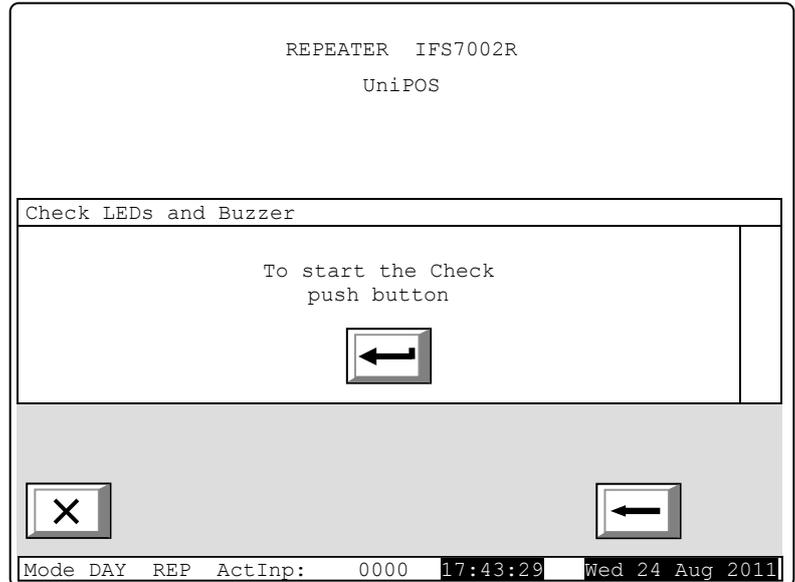
- Correct the date:
 - The cursor „“ is located over the first position in the first line.
 - Input the first symbol (*exp: "2" from date "1-08-11"*).
 - Press the button  and cursor moves one position right (*exp:2-08-11*).
 - Input the second symbol (*exp: "1" from date "21"*) and etc. until entering correct date.
 - If you have a incorrect digit, use the buttons  and . They move the cursor to the incorrect character and enter the correct digit.
- Correct the day of the week:
 - Press the button  and cursor moves one line down (second line).
 - Press the button  or  to display previous or next day of the week. Moving from Monday to previous day will set the day to Sunday; moving from Sunday to next day will set the day to Monday
- Real time correction procedure is done to correct the date.
- Correction of coefficient callibration:
 - The minimum or maximum value: from -30 to +30 units.
 - Each positive device accelerates the clock at the rate of 10,7s per month.
 - Each negative device delays the clock at the rate of 5,35s per month.
 - For correction use button  and .
 - The maximum rate is e +5,5min per month or -2,75min per month.
- The Auto DST mode enables the daylight saving time functionality to automatically change the time in the last week of October (-1h) and last week of March (+1h).

While changing the values in the bottom left section appears the reminder *Data not saved*.

- Exit the screen without saving changes and transition to the previous menu - button .
- Exit the screen without saving changes and transition to the Duty Mode - button .
- Changes take effect when you press button , then the reminder *Data not saved* is cleared.

9.4.2.2. Function *Check LEDs and Buzzer*

The function allows checking the LEDs and the local sounder. Enter the function to display the following screen:



Active buttons are:

- Button  ("Enter")
- Button  ("Cancel")
- Button  ("Exit")

Using the keypad:

- Start check - button  ("Enter")
 - The repeater's LEDs illuminate.
 - The local sounder produces a continuous sound.
 - The text message on the display changes: "*To stop the Check push button* .
- Press the buttons  or  to exit or press  once again to discontinue the check-up operation.
 - The LEDs restore their initial state.
 - The local sounder restore their initial state.
- Exit – buttons  or .

Note: LED  ("System Error") and the local sounder are activated or deactivated a few seconds later than the rest of the LEDs.

9.4.3. Menu Set Up

Access to Set Up menu is allowed at Access Level 3; accordingly as soon as you enter the menu, a password screen appears:

- Password is entered with the numeric keys - 0 ÷ 9.
- Maximum password length – 10 digits.
- Entering a number after tenth position – not valid.
- Confirm the entered password

– button  (“Enter”).



- Exit from screen - buttons  (“Exit”) or  (“Cancel”).
- If the entered password is incorrect, the cursor “█” is positioned in the first position of the password re-entry.
- If the entered password is correct, enter the menus and functions with the access level 2 and 3.
- Number is inserted into the cursor position “█”.
- Buttons  and  move the cursor to the input numbers without changing them.
- Wrong number is erased in the following order:
 - Cursor “█” moves over erroneous number with buttons  and .
 - Erroneous digit is deleted by pressing button .
 - If no number under the cursor “█”, button  delete number in front the cursor.
- Insert digit omitted:
 - The cursor “█” move to the position, where will be insurted the missing digit, with buttons  (“Left”) and  (“Right”).
 - Insert the missed digit (the olds, inserted digits will move with one position in right).

The inserted access level password for level 3 should be confirmed with button  (“Enter”).

- If the password is wrong – the inserted digits will deletes and the marker goes on the initial position for new insertion.
- If the password is correct – the panels goes in Setup mode.

In case an external keyboard has been connected before entering the SetUp Menu, the set up of the fire control panel can be done via the keyboard.

10. Set Up Mode

10.1. Description

Set Up mode is used for setting the configuration parameters of the repeater.

Access to the Set Up screen is provided through Information and Control Mode (see [item.9.4.3](#)).

When the repeater enters Set Up mode:

- It exits all other conditions.

- It discontinues the service of the fire control panels connected to it.
- The repeater can be controlled via the keypad provided for the purpose.

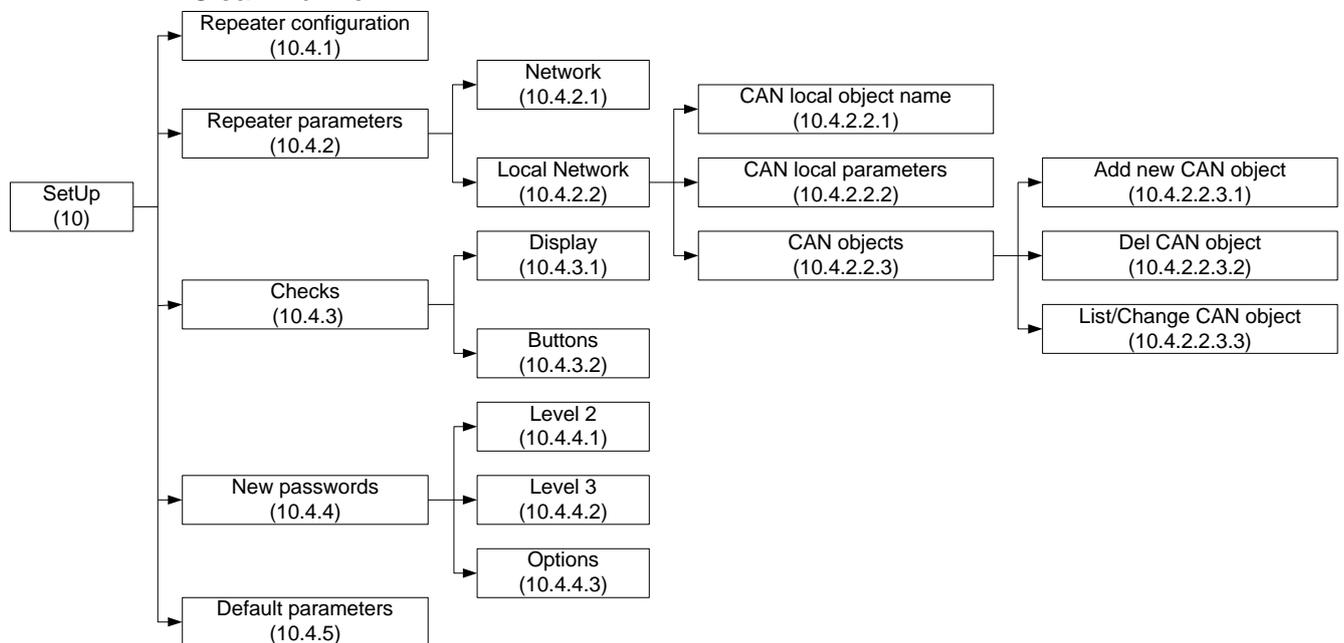
The displayed screens have a tree structure of subordinate menus ([Appendix 2b](#)).

To exit the condition use button  ("Exit") or press repeatedly button  ("Cancel") until you reach the main menu.

Upon exit of Set Up mode, reset of the repeater is performed.

Menu Set Up contains the following subordinate menus and functions:

- Repeater configuration
- Repeater parameters
- Loops
- Zones
- Inputs
- Initialization
- Checks
- New Password
- Default parameters
- Clear Archive



10.2. Indication

In Set Up mode only the green LED indicator  ("Power supply") is illuminated. The local sounder is off.

Text messages are specific to each screen. The screens are shown in [item10.4](#) herein.

10.3. Keypad

In the repeater provided possibility to connect an external keyboard PS2 ([item10.3.2](#)). Here you need

access level 3 or 4. On the display remains active buttons  ("Enter"),  ("Cancel") and  ("Exit"), allowing return to the main menu when you turn off the keyboard.

When you work in SetUp condition without using an external keyboard, panel is active standard buttons for moving, selection, confirmation and canceling:

- Transition to a lower hierarchy menu is performed via button  ("Menu").
- To move between menu items:

- The buttons  ("Up") and  ("Down"), when the menu appears as ascending window from the left bottom corner of the screen.

- The buttons  (“Move Up”) and  (“Move down”) – when the menu appears on a panel in the middle of the screen.
- The buttons  (“Page Down”) and  (“Page Up”) – previous and next page from the left window.
- Transition to a lower hierarchy menu use button  (“Enter”).
- To revert to a previous/ upper hierarchy menu use button  (“Cancel”).
- To exit the condition use button  (“Exit”) or press repeatedly button  (“Cancel”) until you reach the main menu.

The screens provided for parameter changes and command execution (command screens) are of the lowest hierarchy.

When screen for parameter changing is started, follow buttons are active:

- Marker, shows the current parameter (the parameter for correction).

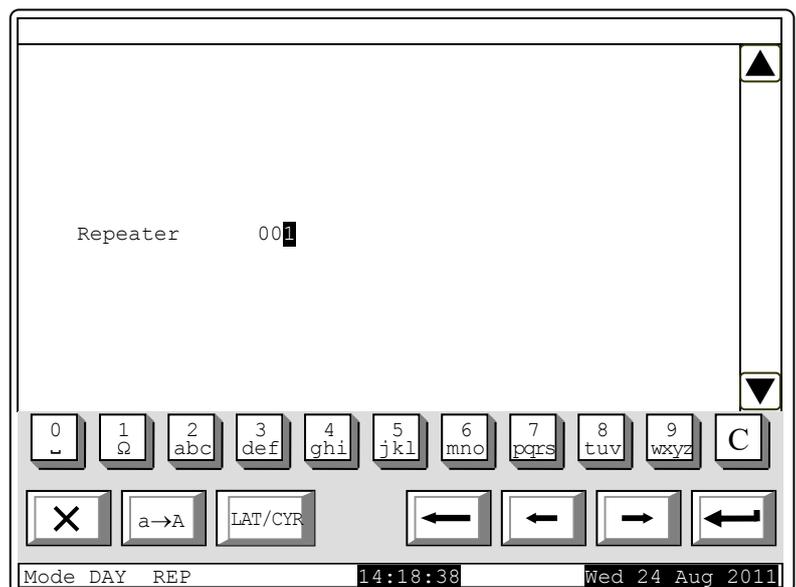
The pointer may be visualized as:

- A cursor “█”, indicating the position where:
 - ◆ a symbol will be inserted – if there is a symbol under the cursor and a text at the cursor’s right side, they will be moved one position to the right;
 - ◆ symbol will be deleted – if there is a symbol under the cursor, it will be deleted; the text at the right side will be moved one position to the left; if there is no symbol under the cursor, the symbol to the left will be deleted.
- An arrow “█”, pointing over the parameter.
- A text in inverse colors.
- To move between the parameters use buttons  (next parameter) and  (previous parameter).
- To revert to a previous/ upper hierarchy menu without saved the parameters use button  (“Cancel”) or  (“Exit”).
- To save the changes press button  (“Enter”) and the reminder “Data not saved” is cleared.

10.3.1. Built-in keypad

If no external keyboard is integrated in the control panel use the buttons shown on the display for the specific menu:

To edit the text use the buttons having symbols. More than one symbol is assigned to the buttons from 1 to 9. When the button is pressed they are changed alternatively as the symbol is inserted in the position of the cursor █, and the previous text is moved one position to the right. The cursor remains for 1 s over the same position; if you press it again, the symbol will be changed by the next one marked on the button (the symbol Ω marked on the second button means, that the figure 1 is in combination with



punctuation marks). 1 s after the last pressing the cursor moves to the next position to the right.

If you press another button during this 1 second, the cursor first moves one position to the right and then the new symbol is inserted.

The maximum length of the message is 40 symbols. If you press a button after a 40-symbol message is already entered, the text will not be accepted and the symbol will not be inserted (the cursor moves one position to the right if the end of the text message is not reached yet).

Press button  to delete:

- The symbol under the cursor, if any.
- The symbol to the left of the cursor, if there is no symbol under it.

Press button  or  to move the cursor one position to the left or to the right.

Button  changes the case from lowercase to uppercase, button  changes the uppercase to lowercase.

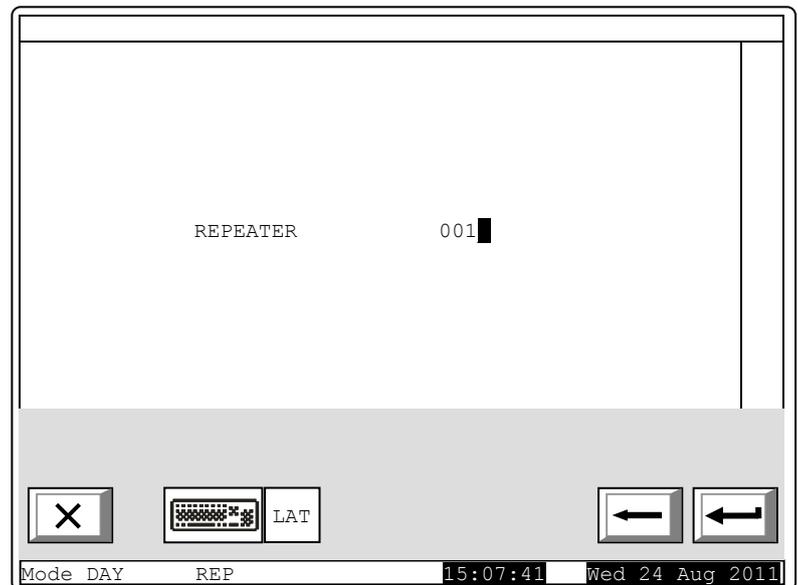
Button  changes the Latin font to Cyrillic font; button  changes the Cyrillic font to Latin font.

10.3.2. External keyboard

If an external keyboard is included to the fire control panel the following screen appears:

To edit the text use the buttons having symbols – when you press a button, the symbol appears over the position of the cursor, and the previous text and the cursor move one position to the right

The maximum length of the message is 40 symbols. If you press a button after a 40-symbol message is already entered, the text will not be accepted and the symbol will not be inserted.



Press Button Delete on the external keyboard to delete:

- The symbol under the cursor, if any.
- The symbol to the left of the cursor, if there is no symbol under it.

Press button  or  to move the cursor one position to the right or to the left without making any changes.

Use the additional digit keypad to:

- Insert digits – when the LED “Num” is illuminated.
- Move the cursor via buttons “4 / ←” and “6 / →” (analogically to buttons  and ) – when the LED “Num” is extinguished.
- Delete a symbol via button “Del” (analogically to button “Delete”) – when the LED “Num” is extinguished.

The mode of operation of the additional keypad, indicated by the LED “Num” can be changed via button “Num Lock”.

Button “Caps Lock” alternatively changes the case from lowercase to uppercase (LED “Caps” or “A” illuminate to indicate uppercase).

Button “Ctrl” alternatively changes Latin fonts to Cyrillic fonts; the active font is indicated in the bottom section of the display – indicators LAT and CYR.

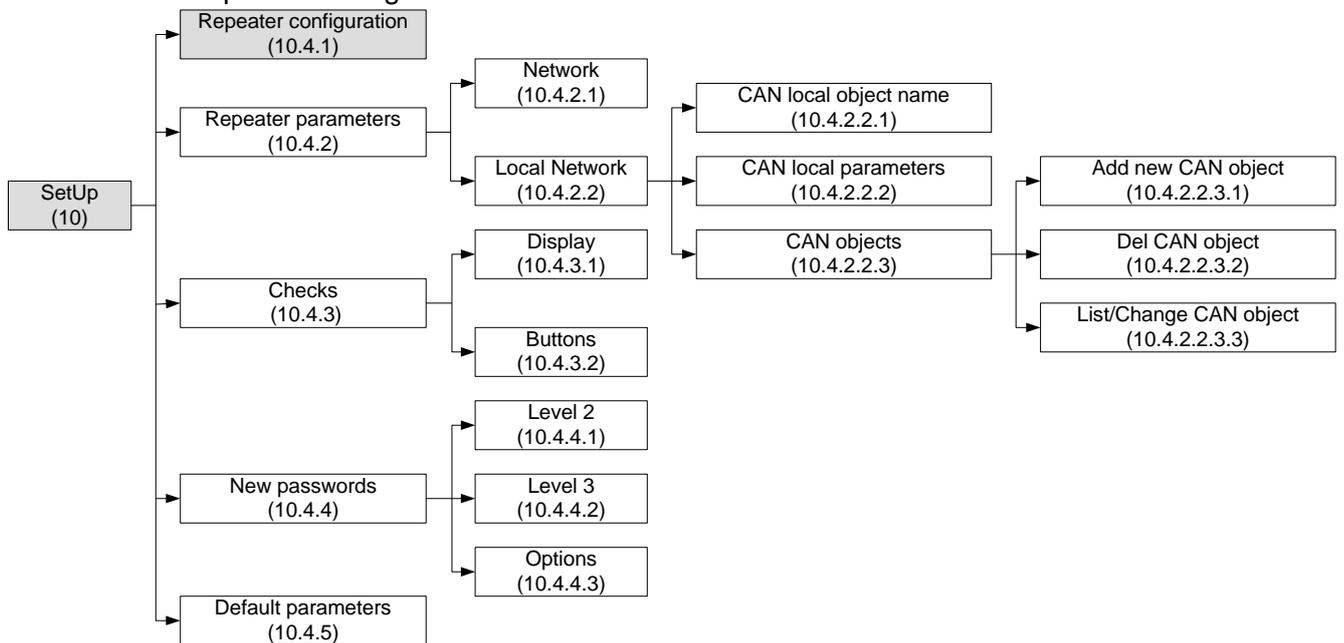
To save a text message press button ← on the built-in keypad or press button ↵ (“Enter”) on the external keypad.

To exit the screen and revert to upper hierarchy menu use button ← on the built-in keypad or button ⬅ (“Back Space”) on the external keypad.

To exit Set Up use button ✕ on the built-in keypad or button “Esc” on the external keypad.

10.4. Work in the menus

10.4.1. Menu Repeater Configuration

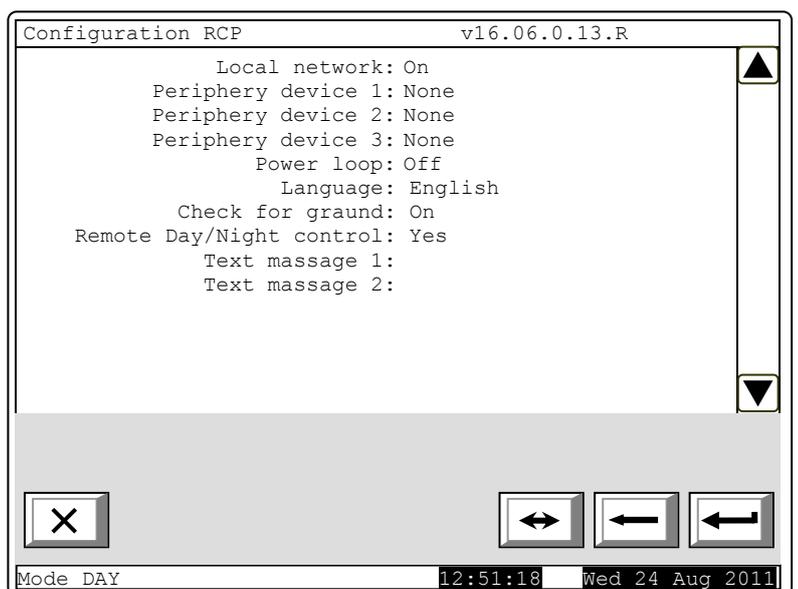


The menu has the following layout:

The value of the first active parameter is displayed in inverse colors (white letters on black background). Buttons ▼ and ▲ at the right panel side allow the user to move between the active parameters only.

To edit the parameters use button ↔ – each time you press it the parameter value changes to the next acceptable value.

Setup parameters in this screen are:



| Parameter | Value | Description |
|--|--------------------------|--|
| Local network | On/Off | Local Network parameter has to be "On" in order to communicate with the fire control panels connected to it. |
| Periphery device 1 Periphery device 2 Periphery device 3 Periphery device 4 | None | Use it when setting up fire control panels connected to the repeater. |
| Power Loop | On/Off | Use it when setting up fire control panels connected to the repeater. |
| Language | Български/English | Specifies the language, in which are displayed menus, functions, messages and screens. |
| Check for ground | On/Off | Enable/Disable the panel's indication of the "earth fault" message. |
| Remote Day/Night control | Yes/No | Enable/Disable the remote trigger of the Day/Night mode |
| Text message 1 | Maintenance company name | User defined 19 symbols text message. |
| Text message 2 | Maintenance phone number | User defined 19 symbols text message. |

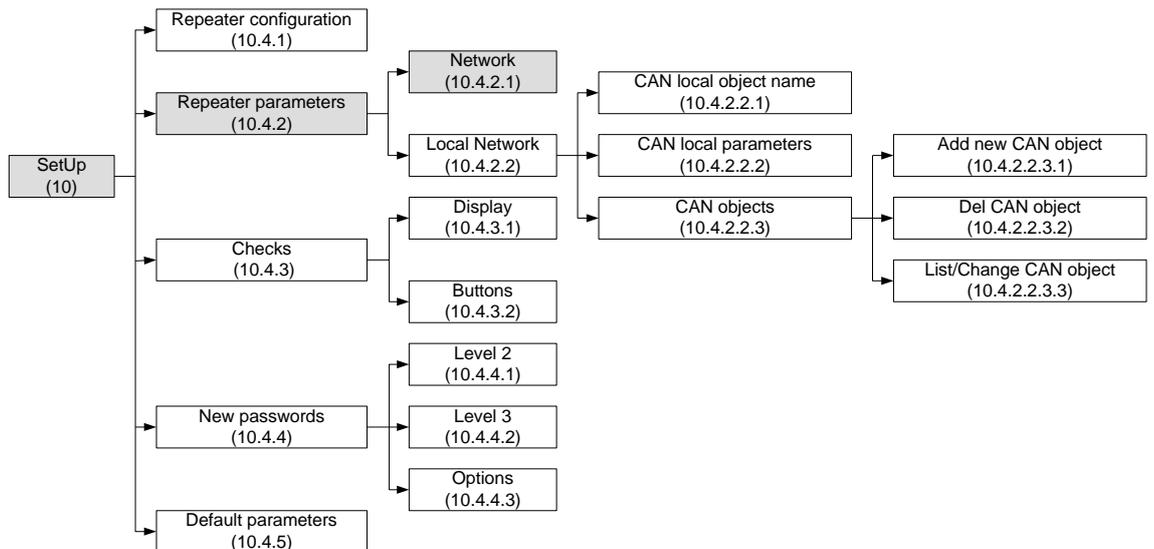
10.4.2. Menu Repeater Parameters

Use the menu to:

- Set up RS network for connection with PC.
- Set up repeater CAN parameters for connection with the fire control panels connected to it.

10.4.2.1. Menu Network

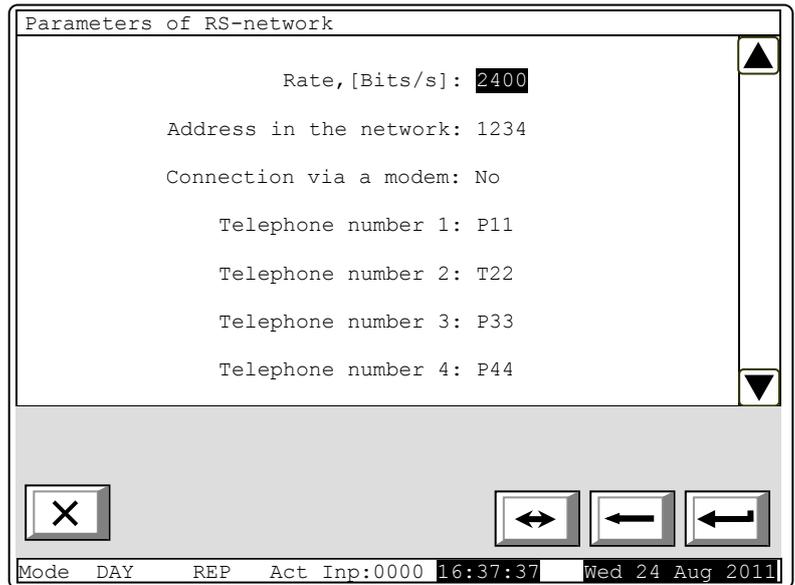
Use this menu to set up the parameters of RS232-network.



The parameter selected to be edited is displayed in inverse colours. Edit the

parameters with button .

If buttons with digits are available, change the parameters with them. Use buttons  and  to select the parameter to be set up:



| Parameter | Value | Description |
|--|-------------------------------------|--|
| Rate | 1200/2400/4800/9600 bits/s | Speed data exchange. |
| Address in network | 1234 (default) Four digit number | Unique network address. |
| Connecting via modem | No/Yes | Sets if the communication is via modem |
| Telephone number 1 Telephone number 2 Telephone number 3 Telephone number 4 | 15-digit telephone numbers | Use button  before the respective number for: <ul style="list-style-type: none"> • the letter "P" – impulse dialing • the letter "T" – tonal dialing. The number is entered my means of the digit buttons that appear on the display. |

Upon changing a parameter, a message appears in the bottom left part reminding that a change has been made and that the new parameters should be saved.

10.4.2.2. Menu "Local Network"

Use this menu to set up CAN parameters of the repeater and CAN parameters of the fire control panels connected to it that should be entered in the repeater.

The setting is needed to unique determine the parameters of the connected objects.

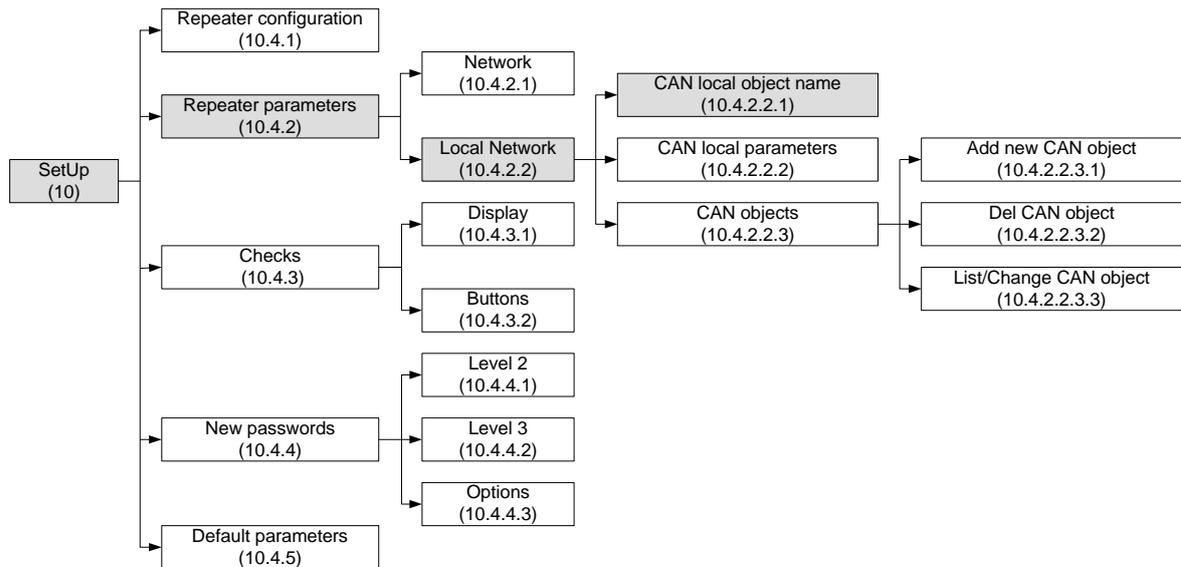
For communication in local network is necessary:

- Defining the CAN parameters of the repeater.
- Defining the CAN parameters of the connected remote fire control panels and repeaters.

It includes the following submenus:

- Menu "CAN local object Name"
- Menu "CAN Local parameters"
- Menu "CAN Objects"

10.4.2.2.1. Menu CAN Name

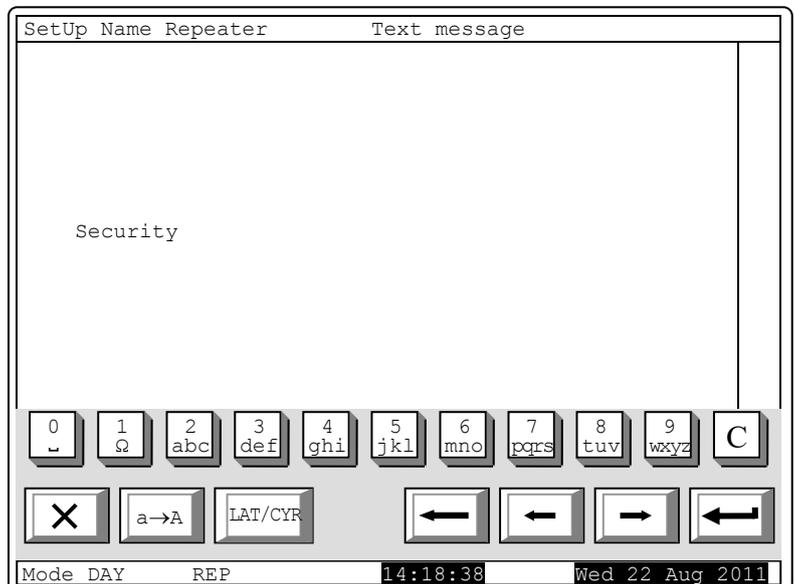


Enter the name of the local object (the repeater) in this menu.

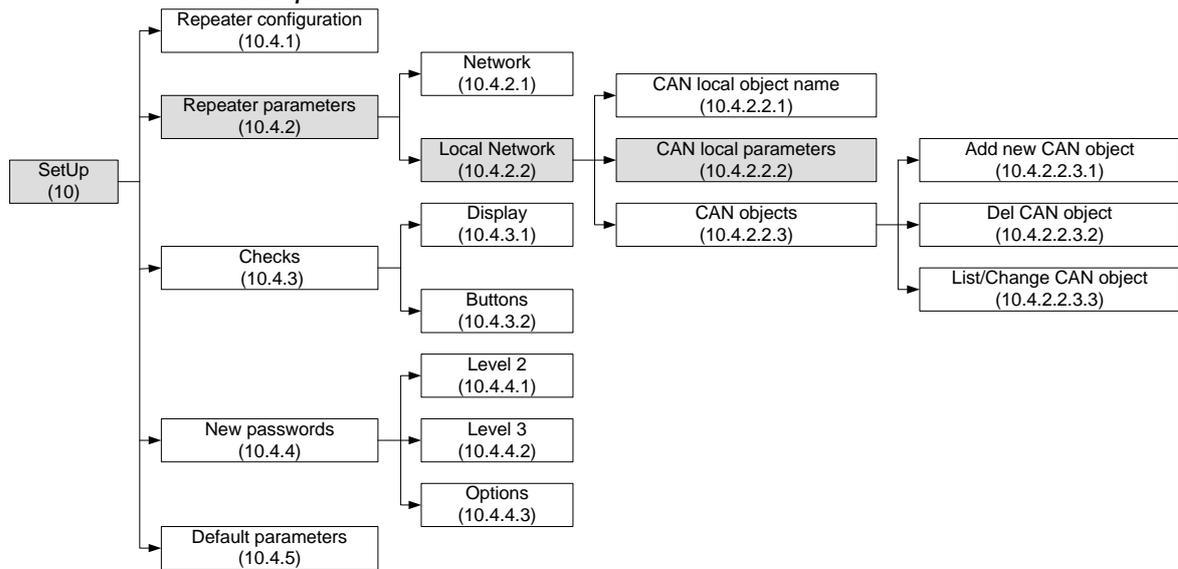
The name of the local object is a random string that might contain both letters and digits (maximum 20 characters). The rules for text entry in section are valid here too.

After returning to the main menu the local parameters could be configured.

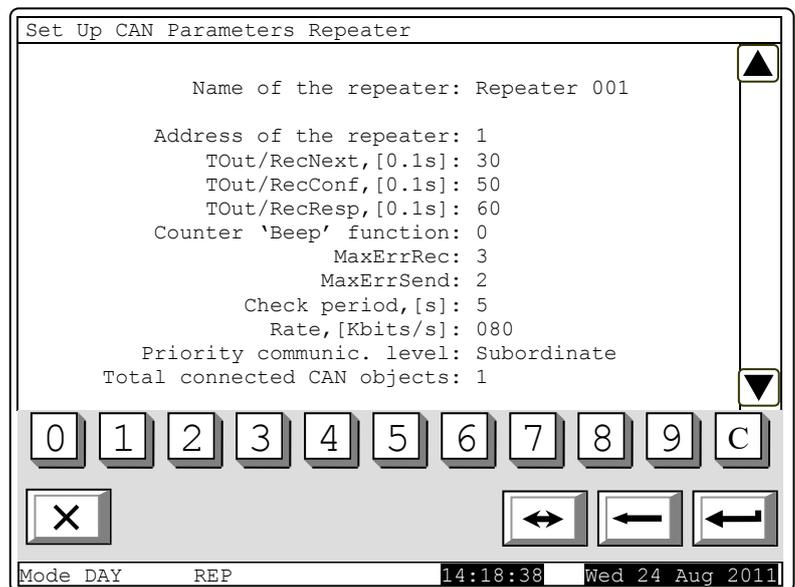
Example: The name of the repeater in Appendix 4 is "Security". It will be defined as "Master".



10.4.2.2.2. Menu CAN Local parameters



The screen serves for entry of CAN parameters, as on the first line the name of the repeater is visualized. The following parameters are entered:



| Parameter | Range of the receiving values | Default value of the parameter | Description |
|-------------------------|-------------------------------|--------------------------------|---|
| Address of the repeater | 0 ÷ 127 | | Unique address of the repeater within the established network |
| Tout/RecNext,[0.1s] | 1 ÷ 120 | 30 x 0.1s=3s | Maximum waiting time for receiving the next telegram (part) when receiving long |

| | | | |
|-------------------------|--|--------------|--|
| | | | messages. |
| Tout/RecConf,[0.1s] | 1 ÷ 120 | 50 x 0.1s=5s | Maximum waiting time for receiving confirmation after a telegram – command/data message not requiring a response has been sent. |
| Tout/RecResp,[0.1s] | 1 ÷ 120 | 60 x 0.1s=6s | Maximum waiting time for receiving a response after a telegram requiring a response has been sent. |
| Counter 'Beep' function | 0 ÷ 100 | 0s | Short signaling of the sounder for the successful check of the repeater connection with the subsequent fire control panel connected to it: <ul style="list-style-type: none"> - If the value is 0 - no "Beep" is released - If the value is N>0, each Nth successful check is signaled by "beep". For example, if it is entered N=1, each check-performed at each "Period of check, [s]" seconds will be signaled. |
| MaxErrRec | 1 ÷ 20 | 3 | Number of CAN-communication errors when receiving telegrams from fire control panels. After this number is reached the respective fire control panel is regarded as suspended (temporarily) from CAN network and a signal is released for a Fault condition of the type "Connection failure with remote fire control panel with address..." |
| MaxErrSend | 1 ÷ 20 | 3 | Number of CAN-communication errors when sending telegrams to fire control panels. After this number is reached the respective fire control panel is regarded as suspended (temporarily) from CAN network and a signal is released for a Fault condition of the type "Connection failure with remote fire control panel with address..." |
| Check period, [s] | 1 ÷ 250s | 5s | A time period is entered. After it elapses the repeater scans the status of the CAN-communication with the connected fire control panels – including the suspended ones from the network at the moment. |
| Rate, [KBits/s] | 640, 320, 213, 160, 128, 106, 91, 80, 71, 64, 58, 53, 49, 45, 42, 40, 35, 32, 29, 26, 24, 22, 21, 20, 17, 16, 14, 13, 11, 10 [KBits/s] | 80 | The communication rate in the network; |

| | | | |
|-------------------------|-------------------------|-------------|--|
| Priority communic.level | “Main” “Subordinate” | subordinate | The location of the repeater that is being set up is specified within the structure of the local CAN network that is being established. One of the repeaters or the fire control panels IFS 7002 within the network should be specified to be Master, and all remaining repeaters and fire control panels – “Subordinate” (Slave). The master repeater or fire control panel must be connected with all remaining repeaters and fire control panels within the system – either directly or via a retransmitting station. |
|-------------------------|-------------------------|-------------|--|

Example: In the network in [Appendix 4](#), the remote panel parameters “Security” are as follow:

- Name – “Security” (item 10.4.2.2.1).
- CAN address – “1” (The address is unique for the local network. The address value there is no connection with the priority. The parameter should be in the range between 0 ÷ 127).
- Priority communication level – “Master” (Sets communication level of the repeater in the structure of local network. Only one object in the network can be defined as “Master”. All rest objects should be defined as “Slave”).
- Total connected CAN objects – “6” (Sets the number of assigned objects. In our examp there are 6 – Bulding #1, Building #2, Building #3, Building #4, Warehouse, Transport gate. The data for the assigned CAN objects will be added in the settings of the main remote panel in section 10.4.2).

The connection of many objects (fire control panels and repeaters) in a network supposes the identification between them. Thus they should have a unique sign. In the networks it is usually a number. It is formed by decoding of several parameters – name and address. The object name is generally required for the “human interface” – the user to be able to distinguish easily the devices connected in the network. The other obligatory parameter is the address. It is the factual parameter used by the software for data exchange in the network. Each device should be assigned a name and an address during the configuration.

In IFS 7000 series the devices share a common address space. The maximum number of repeaters and fire control panels UniPOS connected in CAN network is 32. The name is of importance only for the user and an object having a local name might be assigned another name suitable for user when it is added to the list of local objects.

After the local network parameters have been configured it has to be selected:

- The devices that the local object will operate with.
- What options the user wants to configure for data exchange.

Use the menu for adding an object for this purpose. Fire control panels and repeaters have to be physically connected in advance in the CAN network so that the option could be used. For their proper operation and data exchange the local parameters of these objects have also to be accurately configured before that.

The next menu provides the possibility for adding a CAN object, with which the repeater will exchange data or perform control.

10.4.2.2.3. Menu “CAN Objects”

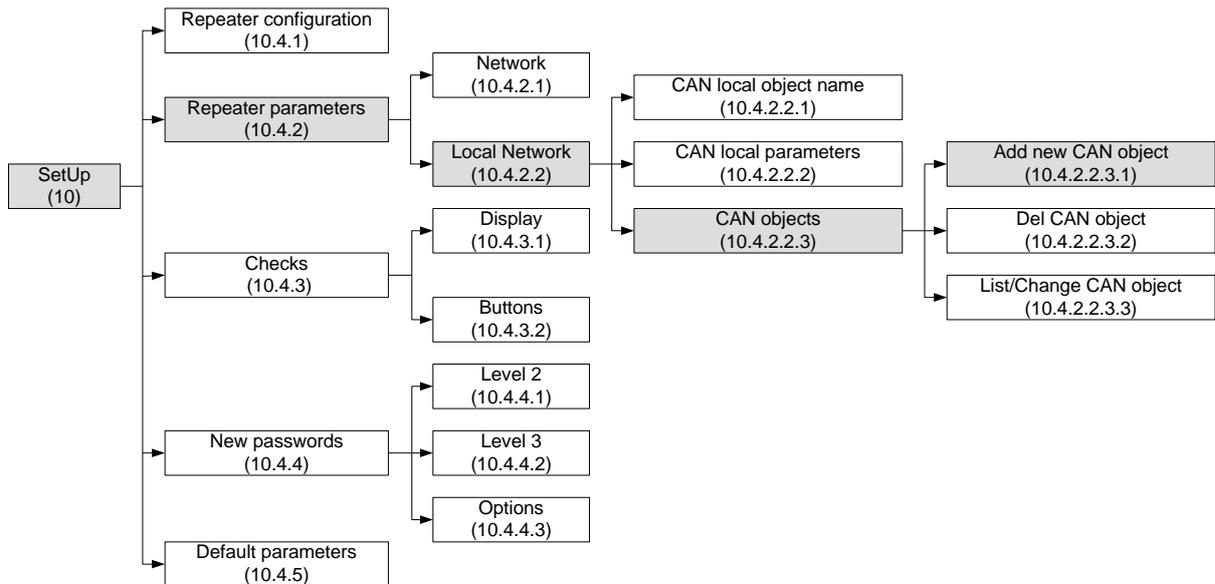
The menu serve for describing of the connected to the panel remote panels (CAN objects).

It is divided in the following submenus:

- Menu “Review/Change CAN Objects”
- Menu “Add New CAN Object”
- Menu “Delete CAN Object”

10.4.2.2.3.1. Menu *Add New CAN Object*

Use this menu to add new fire control panels and repeaters (CAN objects) to this repeater.



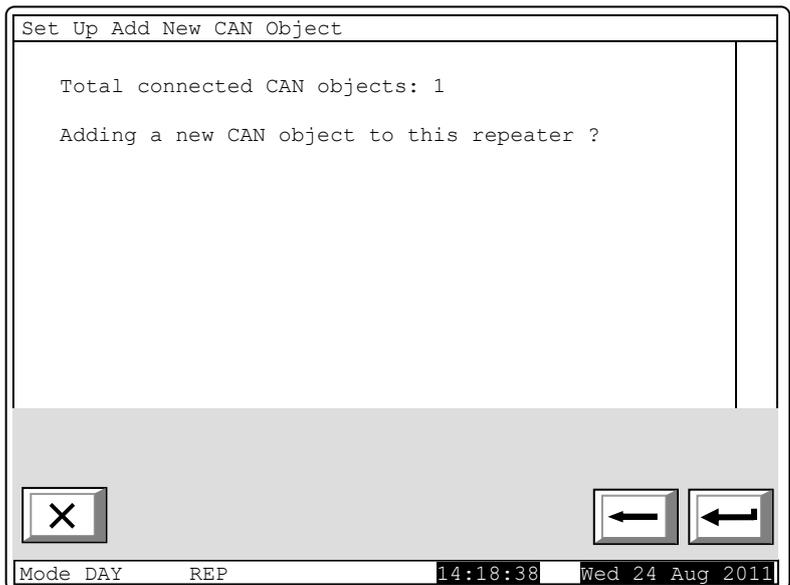
Enter the name of the added CAN object in submenu Name CAN Object. (**Example:** "Building#1").

Upon entering this menu the user is provided the option to add a new CAN object to the repeater that is being set up.

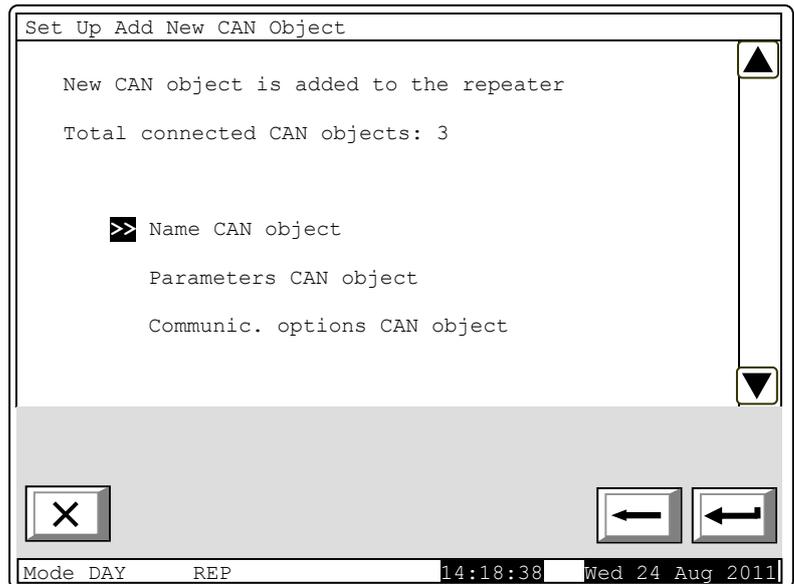
The following options are possible:

- To exit the menu without adding by means of the buttons  "Cancel" or  "Exit".
- To confirm with button . A new CAN object is added automatically to the repeater and a window appear for entry of its parameters and settings;

Example: For the local network in Appendix 4 each one of the panels Building#1, Building#2, Building#3, Building#4, Where house and repeater Transport Gate are assigned CAN objects.

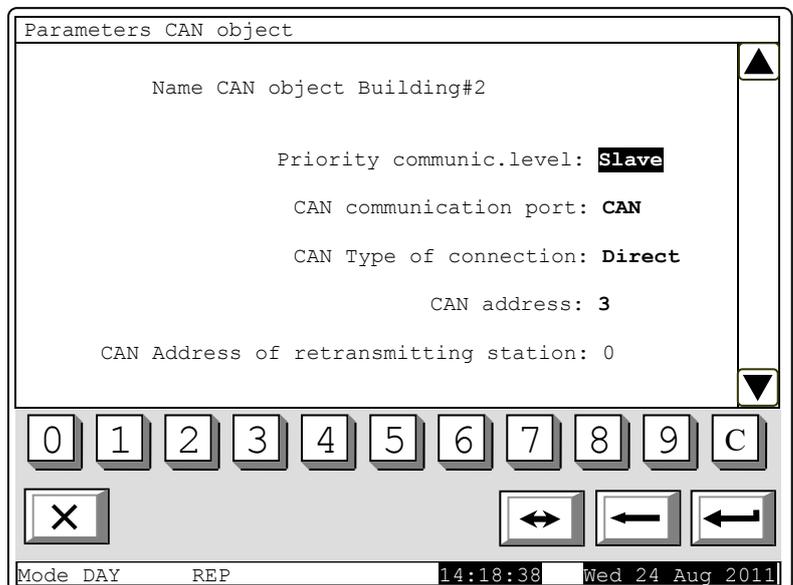


- Enter the name of the added CAN object in submenu Name CAN Object (**Example:** "Building#1").



- Screen "Parameters CAN object"
Enter the new CAN object parameters in this menu:

- The field "Priority communic.level" specifies the place of the described remote object (repeater/fire control panel) within the structure of the network Master or Slave.
- The type of the connection points the way of connection. If the connection is **direct** – the objects are connected to the same CAN in the field address of the repeater. The default value is 0. In the case of connection that connects



objects from CAN1 to CAN2 enter the address of the fire control panel that has to perform it. In this event the type of connection in the field CAN has to be changed.

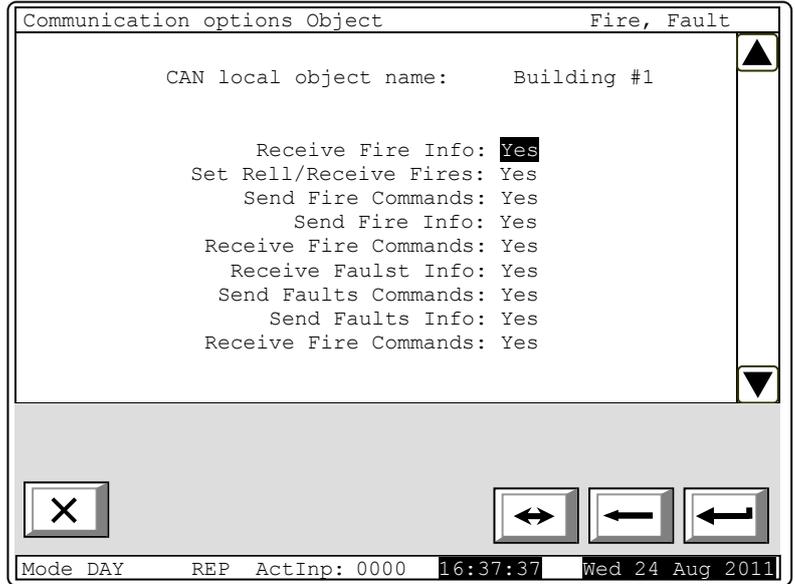
Communication port: **Via a retransmitting station.**

- Enter the address of the retransmitting station – as CAN – address of the object – retransmitting station in the network If the connection is executed via a retransmitting station. This object – retransmitting station should be also described as connected in the CAN network to the repeater.
- Screen "Communication options CAN object" includes menu, which gives possibility for setup of the functionality of remote fire control panel and factual datas, which the panel (adjusted CAN object) and repeater exchange.

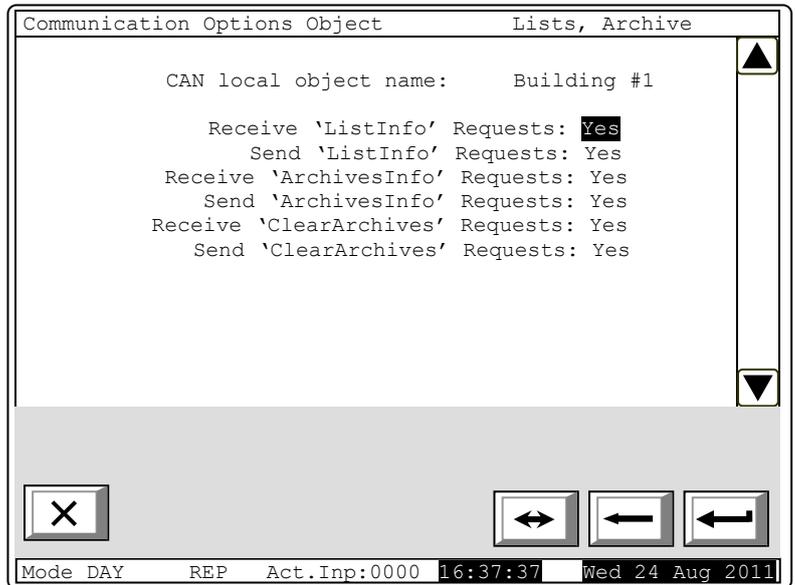
The parameters correction is done via button . For exit button  ("Cancel") or  ("Exit").

This menu is with there screens, which parameters can be changed alternately to "Yes" or "No".

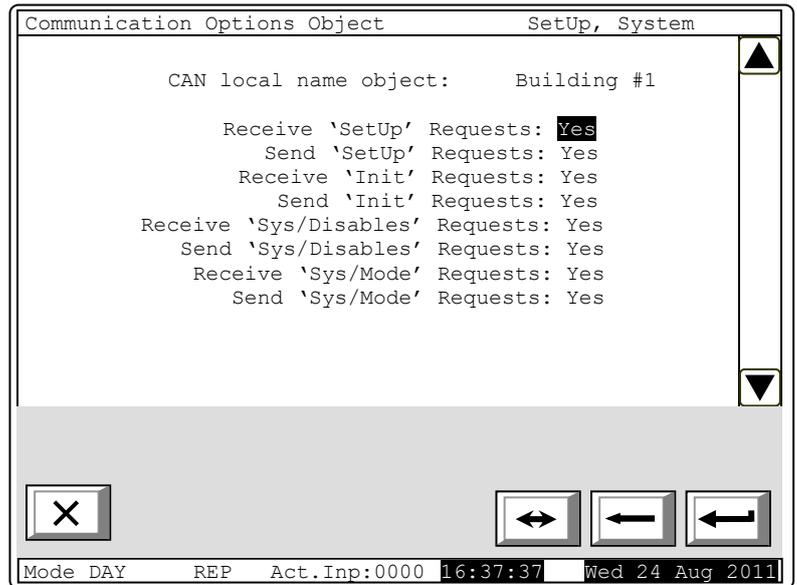
- Fires, Faults



- Lists, Archive

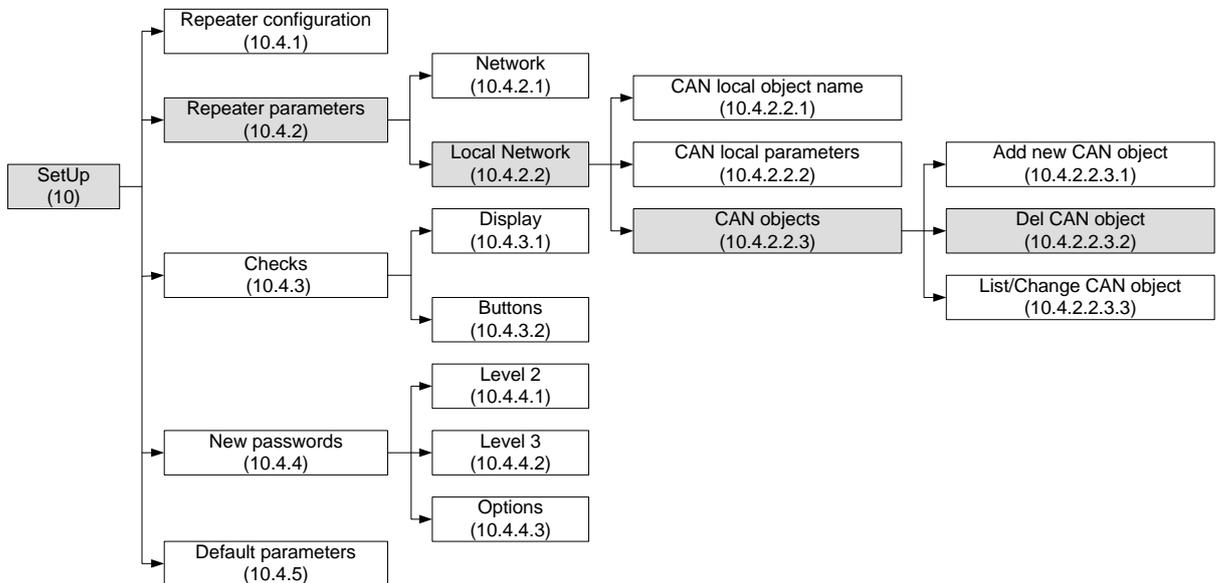


- Setup, System



10.4.2.2.3.2. Menu *Delete CAN Object*

Use this menu to delete CAN objects connected to the repeater.



Use this menu to delete CAN objects connected to the repeater.

When the menu is selected a window appears containing a list of the CAN objects connected to the repeater:

- Delete the object with the pointer  opposite it.
- Confirm delete of the marked

object with button . After pressing it the marked object is automatically deleted.

Example: In the local network to the remote panel "Security" are connected 3 objects:

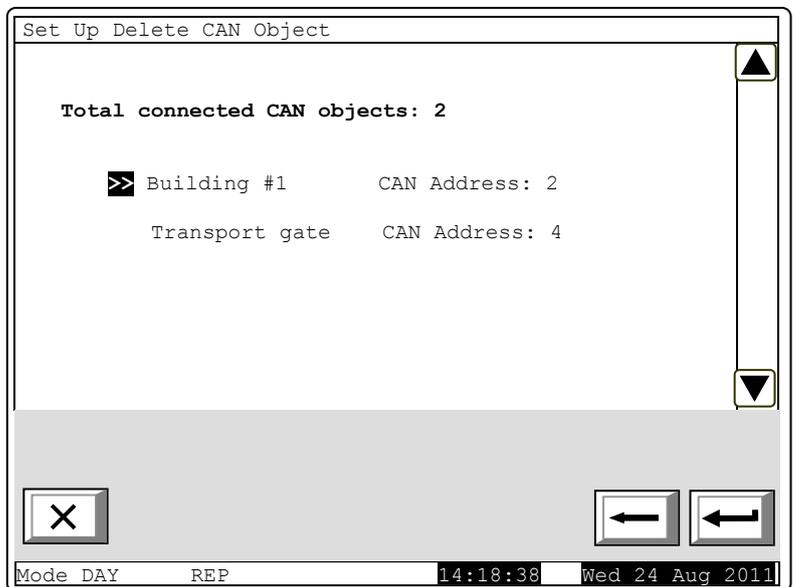
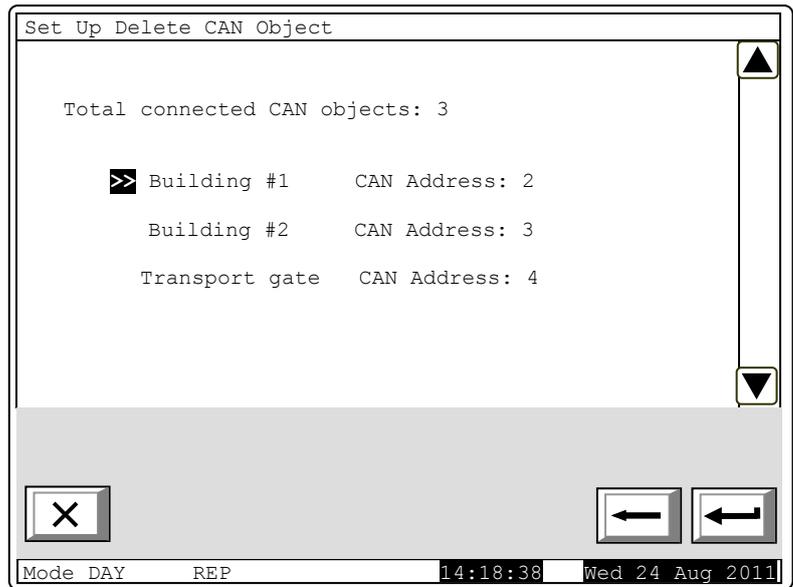
- Building#1 - CAN address 2
- Building#2 - CAN address 3
- Transport gate - CAN address 4.

If its must be deleted "Building#2". Via buttons for moving, should place the marker on "Building#2" and press

button  for confirmation of the deleting and "Building#2" automaticly removes from the assigned CAN objects.

The objects on the display are 2:

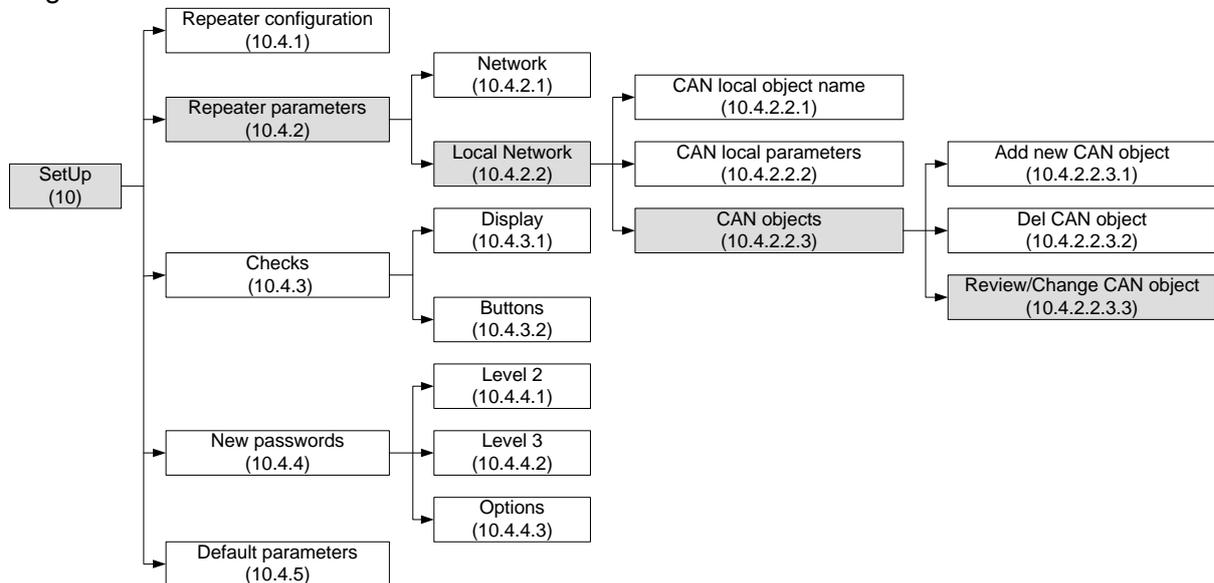
- Building#1 - CAN address 2
- Transport gate - CAN address 4



10.4.2.2.3.3. Menu “Review/Change CAN Objects”

Use this menu to review and edit the parameters of the CAN objects connected to the repeater. First, select the CAN object which parameters will be reviewed and edited.

Use the buttons , , ,  and cursor , marking the selected CAN object for review or change.



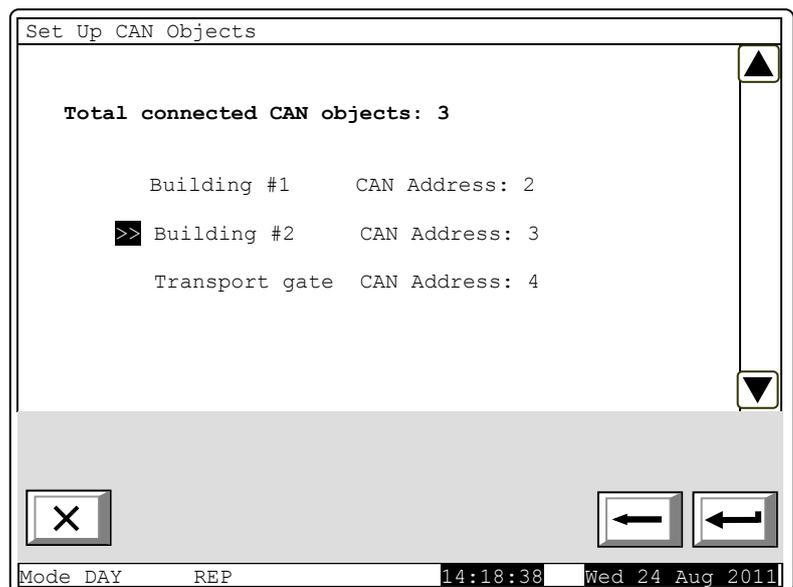
Example: In the local network to the “Master” repeater “Security” are assigned 3 objects:

- Building#1- CAN address 2
- Building#2- CAN address 3
- Transport gate - CAN address 4

Necessary changes of the panel parameters in “Building#2”.

Via moving buttons the marker should be placed on “Building#2” and press

button  for confirm of the selection. The menus for correction of «Building#2» will be appeared, identically as described in section 10.4.2.2.3.1. – Add of new CAN object.



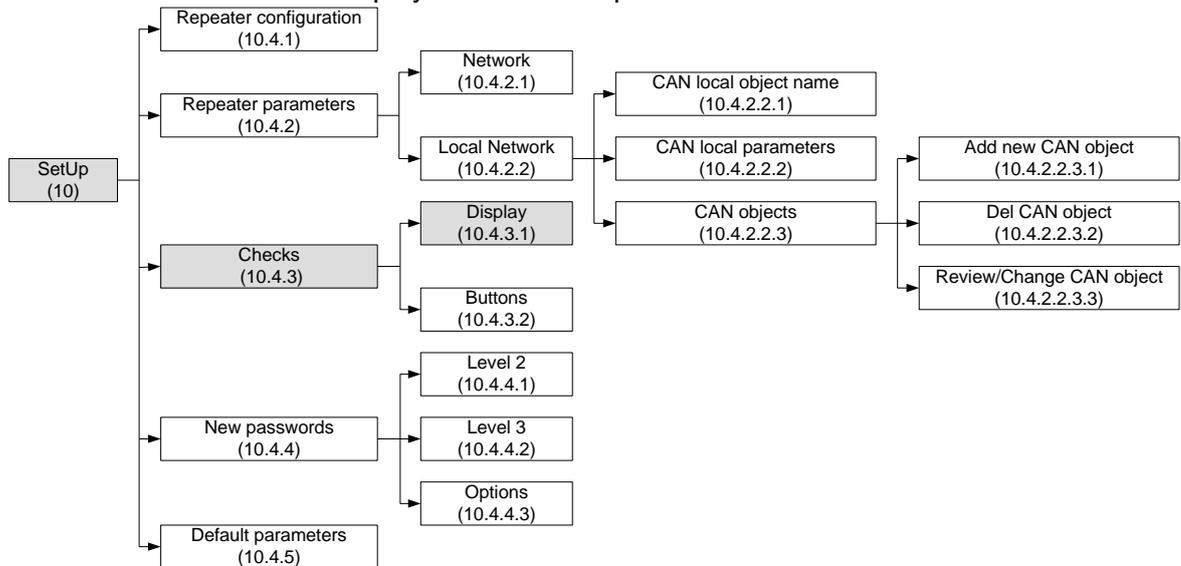
10.4.3. Menu Checks

The menu allows the user to set up the display and the buttons. It contains the following submenus and functions:

- Menu "Monitored outputs"
- Menu "Relay outputs"
- Menu "Addressable outputs"
- Function "Display"
- Menu "Buttons"

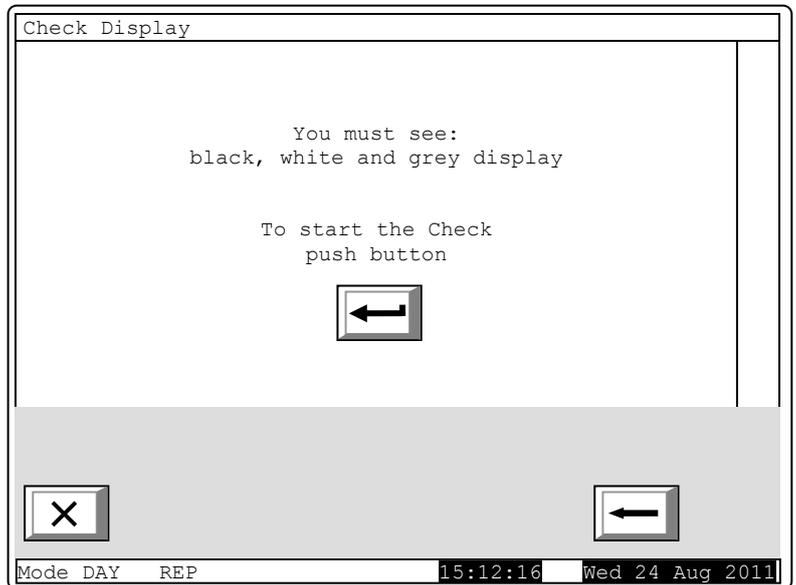
10.4.3.1. Function *Display*

Use the function to check the LCD display of the control panel.



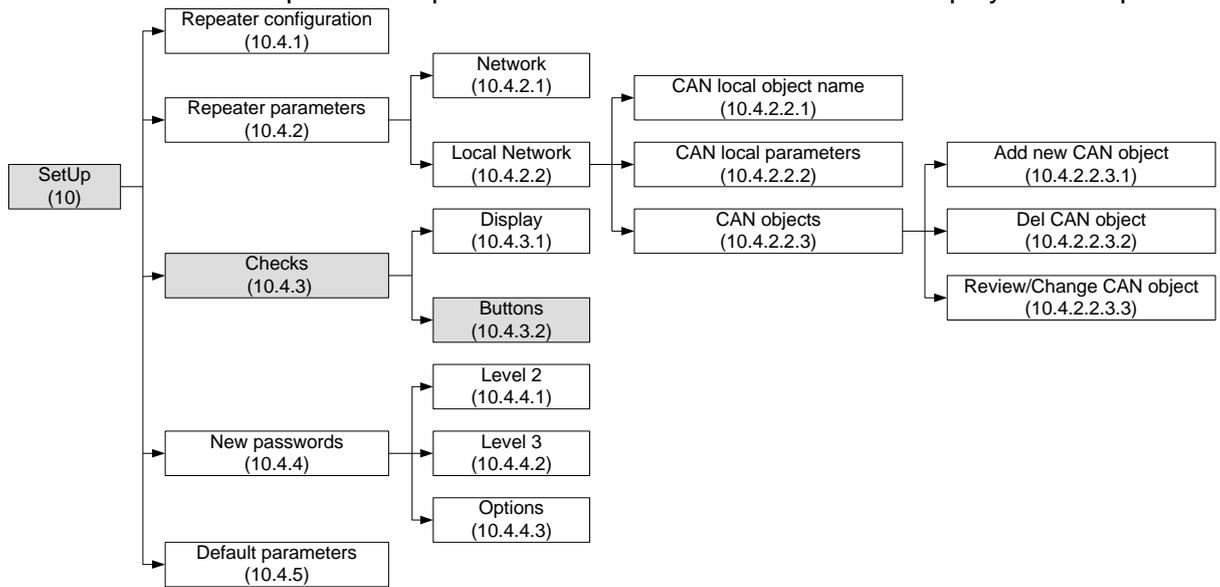
When you enter the function the following screen appears:

When you press button  that is in the middle of the display, the check is being started. The display changes its color from black to white and then to grey (on dots). Each color remains for about 4 s. After the check is completed, the initial screen appears again.

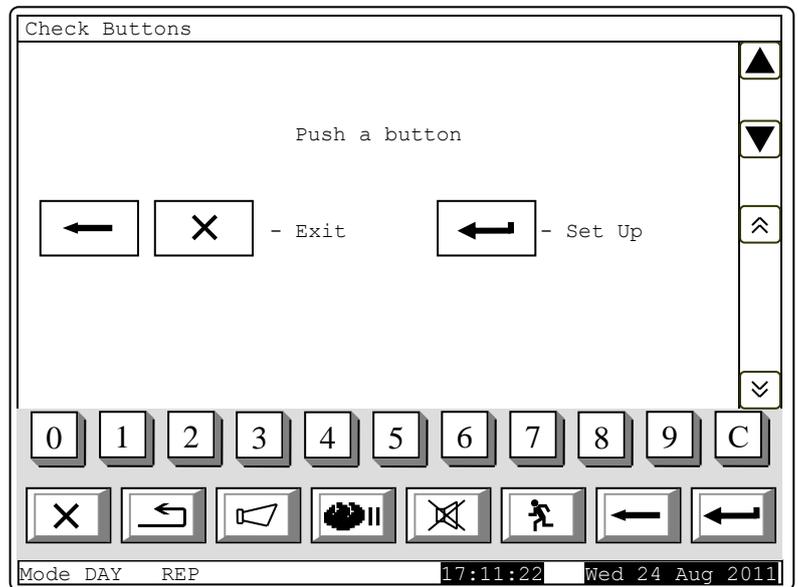


10.4.3.2. Menu Buttons

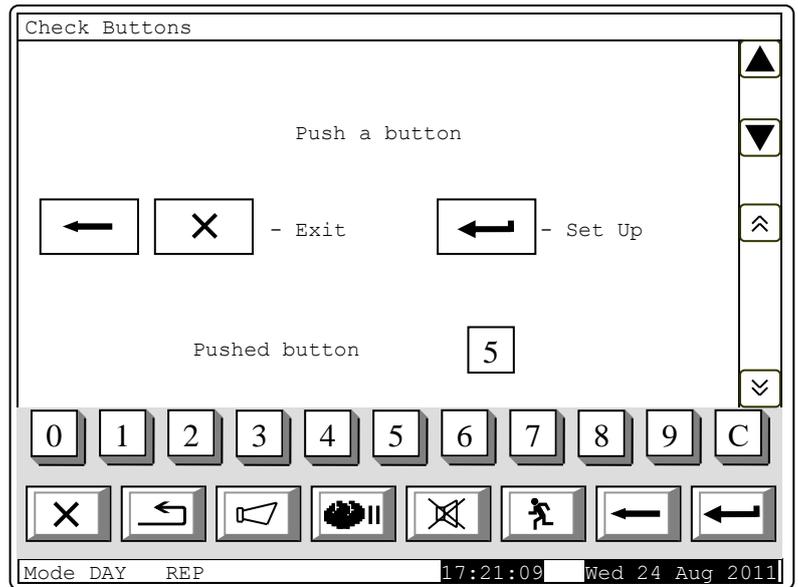
The menu is used for check-up and set up of the buttons situated on the LCD display of the repeater.



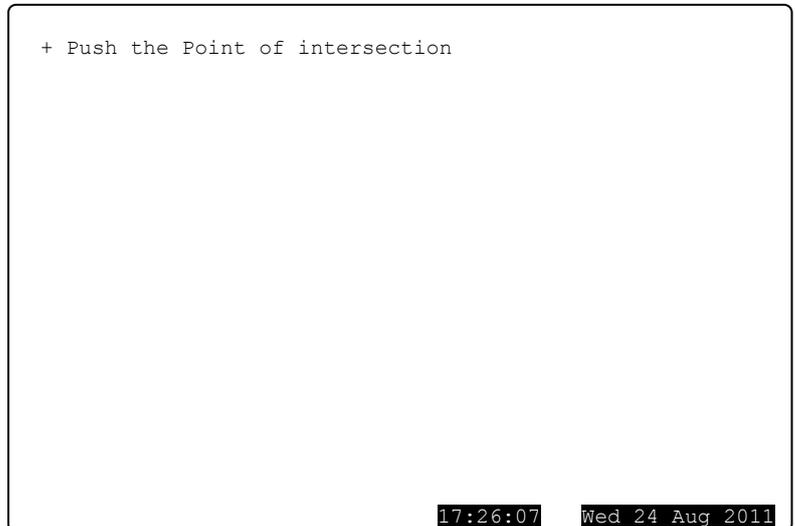
Enter the menu to display:



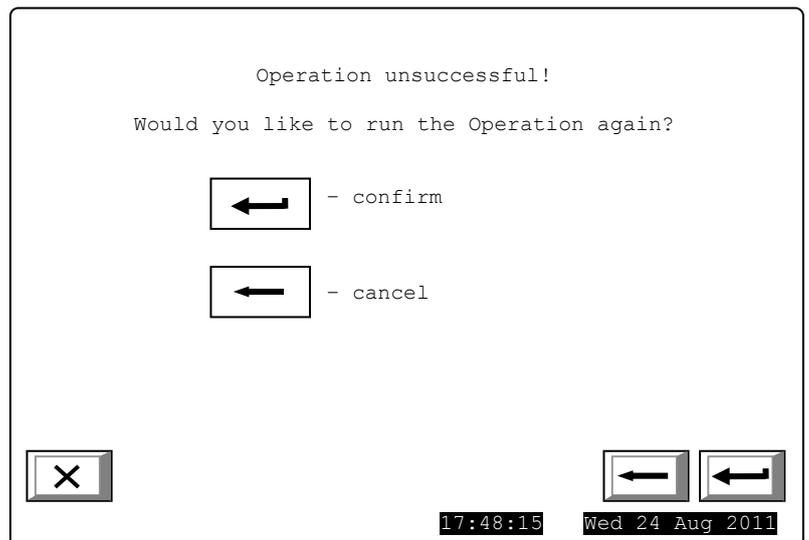
When a random button is pressed (except for buttons ,  and ) a message and a graphic image of the pressed button appear:
 If the button visualized on the display does not correspond to the pushed one then the function buttons set up has to be activated.



To start setting the buttons up, press button . Set up is being performed at two points on the display and is being checked at two points. Enter the function to display the first point of set up: Must be pressed intersection of the cross with your stylus. Similarly proceed with the second, third and fourth point.



- The options for finishing the setting up are the following:
- If the check performed at the third point and the fourth point is checked and if it is successful the function is exited automatically.
 - In case the performed check at point three is unsuccessful, the first adjustment point is displayed on the screen.
 - In case the check at point three is successful, but at point four is not, then a screen with text message for fault condition is displayed.

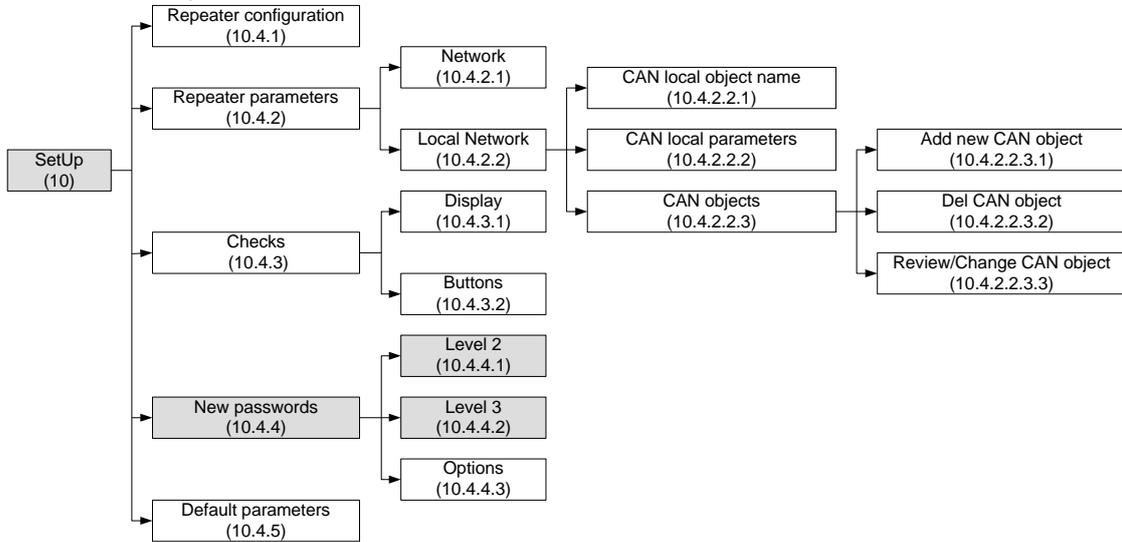


The check-up can be interrupted at any stage by pressing button  or .

10.4.4. Menu New Passwords

The menu allows the user to compose and edit passwords for Access Level 2 and 3. It contains:

- Menu "Level 2"
- Menu "Level 3"
- Menu "Options"



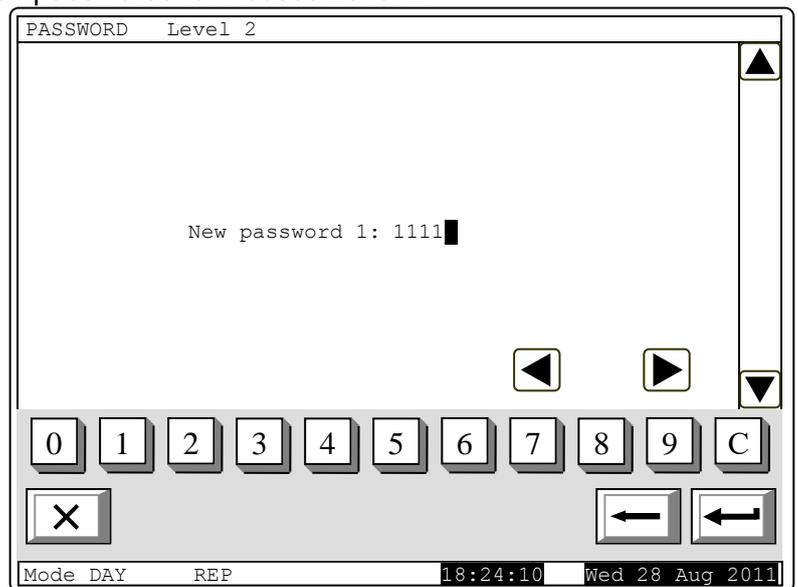
10.4.4.1. Menu Level 2

The menu allows the user to enter and edit passwords for Access Level 2.

Enter the menu and a screen where you can edit the first password for Access Level 2 appears:

To enter or edit a password use the digit buttons – when you press a button, the digit is inserted over the position of the cursor, and the previous text and the cursor move one position to the right. Move the cursor to the left or to the right using buttons and .

Press to delete:



- The digit under the cursor, if any.
- The digit to the left of the cursor, if no digit is available under the cursor.

The maximum length of the password is 10 symbols. If you press a button after the 10-digit password is entered, the exceeding symbol will not be accepted.

When you press button the last entered password will be saved in the control panel.

When you press button or the previous or the next password will be displayed for edition. Any unsaved passwords will be lost.

10.4.4.2. Menu Level 3

The menu allows the user to enter and edit a password for Access Level 3:

To enter or edit a password use the digit buttons – when you press a button, the digit is inserted over the position of the cursor, and the previous text and the cursor move one position to the right. Move the cursor to the left or to the right using buttons  and .

Press  to delete:

- The digit under the cursor, if any;

- The digit to the left of the cursor, if no digit is available under the cursor.

The maximum length of the password is 10 symbols. If you press a button after the 10-digit password is entered, the exceeding symbol will not be accepted.

When you press button  the last entered password will be saved in the control panel.

10.4.4.3. Menu Options

In IFS7002R an option is provided possible to use button  (“Outputs”) at Access level 1. Button is displayed when the repeater is in Fire condition and served to suppress/enable outputs in the connected Fire control panel.

Addressable outputs, activated by the inputs, can not be suppressed.

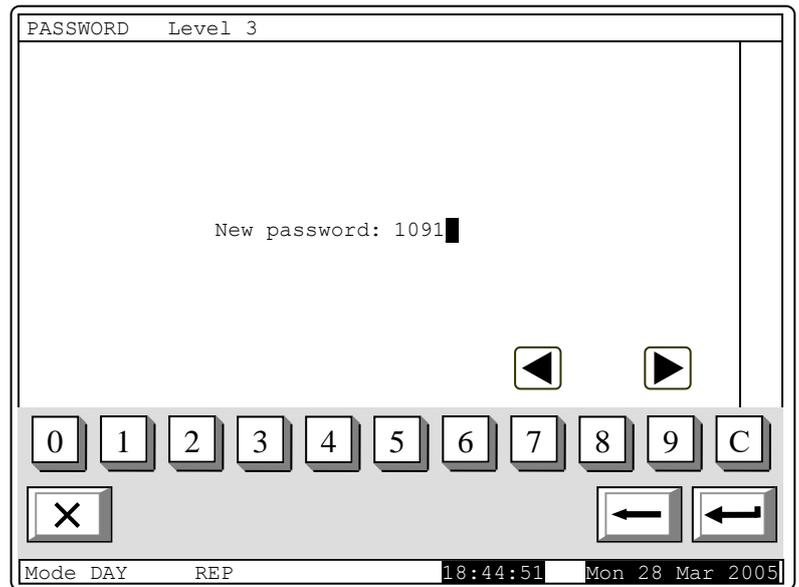
To use this option in the fire control panel enter menu “Setup/New passwords/Options”.

Upon entering the menu the following setup window appears.

To edit the parameter press button  – when pressed its value changes alternatively:

- Yes – a password for disabling/enabling the activated outputs in Fire condition is required.
- No – a password for disabling/enabling the activated outputs in Fire condition is not required.

Press button  to save the selected parameter in the repeater.

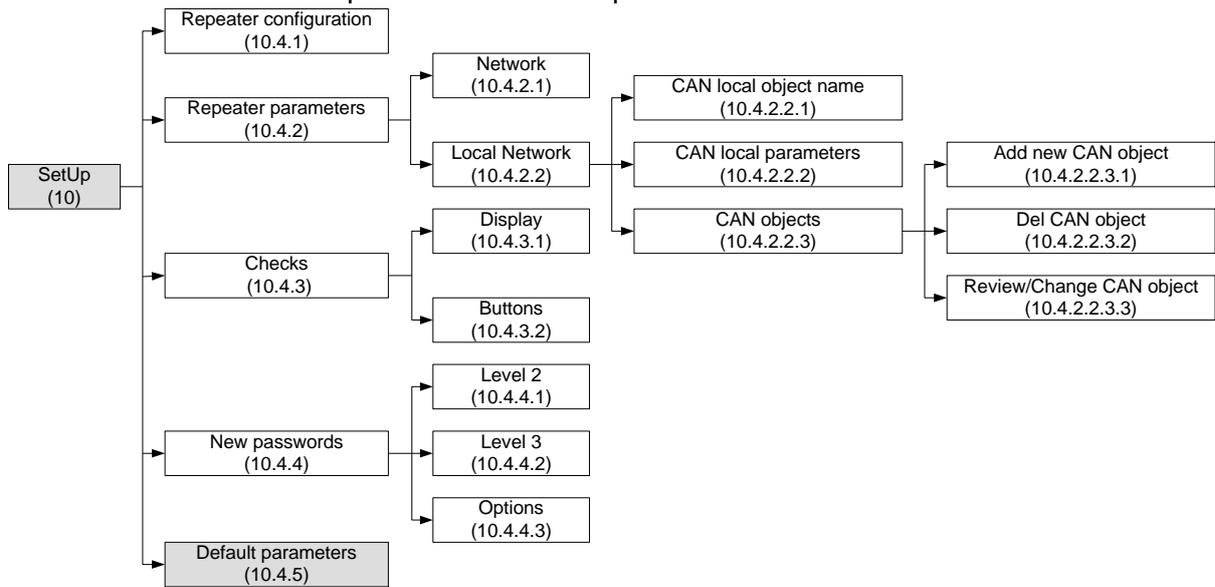


Attention!!!

The activation of this function (a password for suppressing/disabling the activated outputs in Fire condition not to be required.in IFS7002) is not in conformity with the European Standard EN54-2 and it must not be used in the countries where that standard is valid.

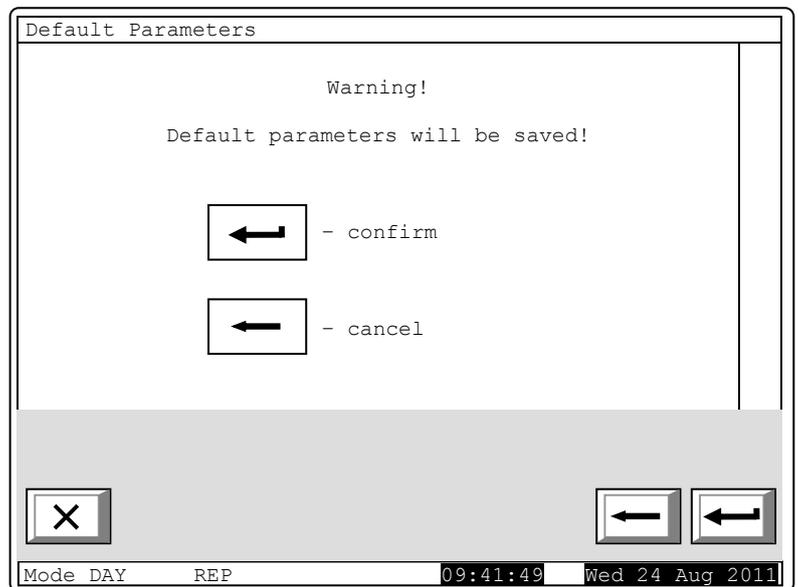
10.4.5. Function "Default parameters"

The function saves the default parameters of the repeater

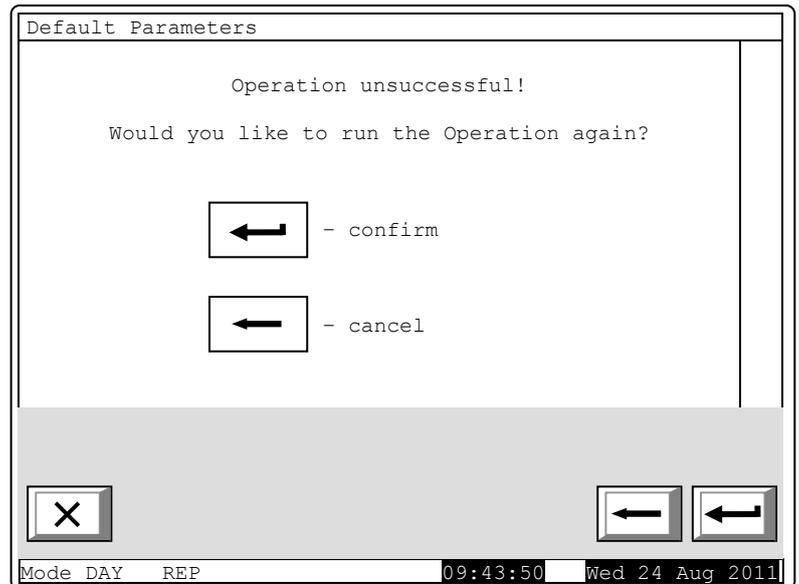


Upon activation a warning screen appears:

To save the record press button , in the bottom line of the panel appears the message *Wait please...*



Upon unsuccessful operation appears the following screen:



When the records are successfully saved, the menu is exited automatically.

The following default parameters are being saved:

- Local network – none
- Language – English
- Mode – DAY

11. Saving the parameters

All set values for parameters or modes of operation are being saved in the energy independent memory and upon interruption of mains supply the values remain intact. After the repeater is switched on again, it starts operation in accordance with modes and values previously set.

Default parameters and modes of operation are factory set up.

User passwords are set to:

- Access Level 2 passwords:
 - ◆ Password 1 – 1111
 - ◆ Password 2 – 2222
 - ◆ Password 3 – 3333
 - ◆ Password 4 – 4444
 - ◆ Password 5 – 5555
 - ◆ Password 6 – 6666
 - ◆ Password 7 – 7777
 - ◆ Password 8 – 8888
 - ◆ Password 9 – 9999
 - ◆ Password 10 – 1010
- Access Level 3 Password:
 - ◆ Password 1 – 0000

12. Labor protection requirements

The installation and maintenance staff shall be well grounded in equipment's mechanism and operation, as well as in common technical safety regulations.

Connection to unearthed or to indirectly earthing mains supply is prohibited.

Troubleshoots are to be cleared after disconnecting the feeding cable from the mains supply.

The repeater is designed for installing in premises with a normal fire hazard, as per the Fire Precaution Technical Regulations in Building Construction.

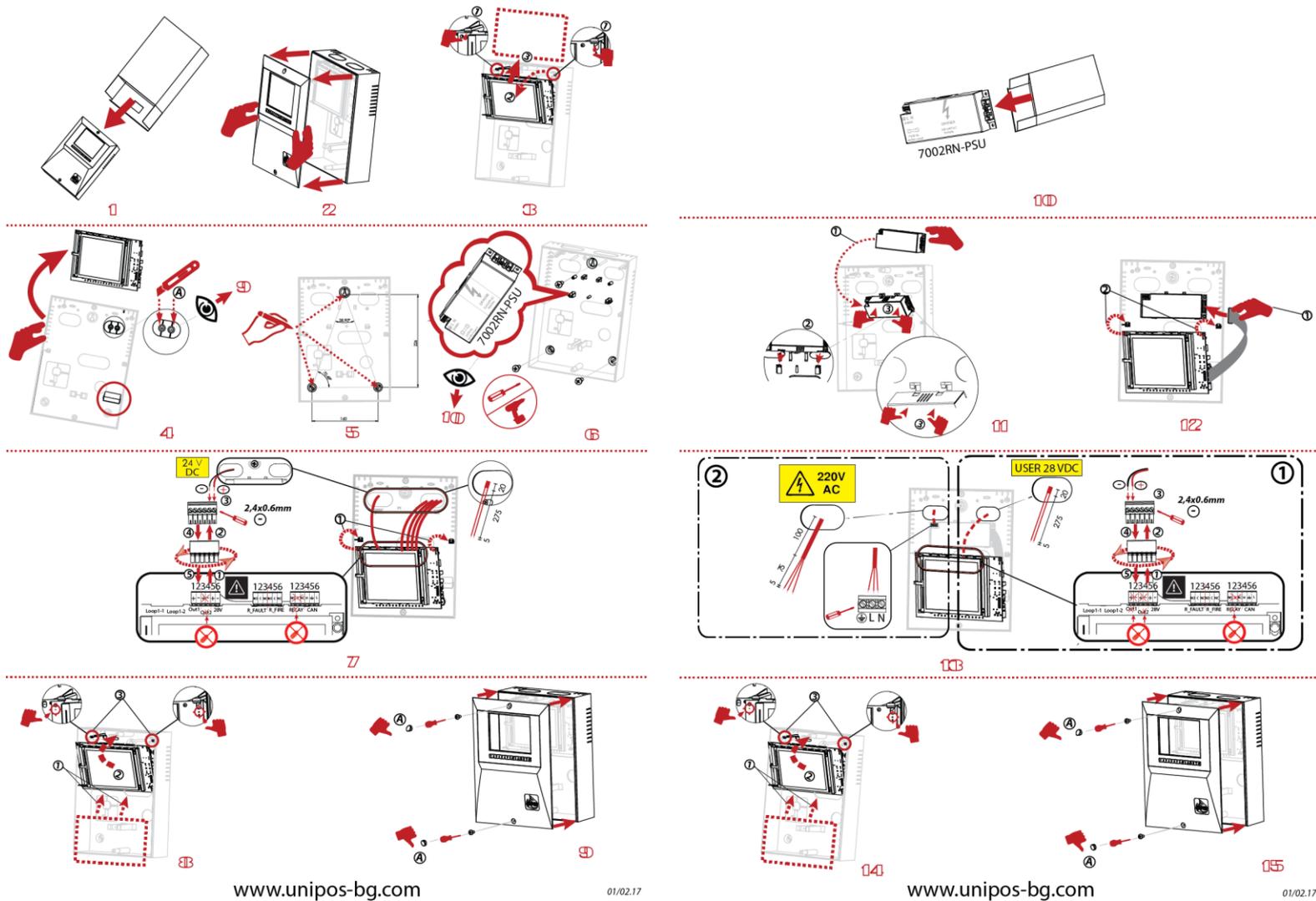
13. Installation and arrangements

13.1. Installation with external power feeding

- Unpack the Repeater /step 1/;
- Remove the cover of the cabinet /step2/;
- Push the holders /step 3/ and pull-out the mother PCB board /step 4/;
- Sign the installation points of the back-side /step 5 & step 6/;
- Pull the power and signal lines through the dedicated opening /step 7/ in the back-side, take out the connectors and connect in the wires;
- Put back the mother PCB board on the holders /step 7 pos.1/ and install the connectors of the previous step;
- Push the main board until click-sound /step 8/, put the top-cover of the cabinet and tighten the screws, Put the plastic protectors /step 9/;

13.2. Installation with PSU module mounted in the cabinet of the Repeater

- Unpack the Repeater /step 1/;
- Remove the cover of the cabinet /step2/;
- Push the holders /step 3/ and pull-out the mother PCB board /step 4/;
- Sign the installation points of the back-side /step 5 & step 6/;
- Unpack the PSU box /step 10/;
- Install the PSU module in the cabinet of the Repeater /step 11 pos. 1, 2/;
- Connect the ribbon cable between the PSU module and the mother board /step 12, pos.1/;
- Put back the mother PCB board on the holders /step 12, pos.2/;
- Pull the power and signal lines through the dedicated opening /step 13/;
- In the back-side, take out the connectors and connect in the wires /step 13/;
- Connect the feed wiring to the PSU mains connectors / step 13/;
- Push the main board until click-sound /step 14/, put the top-cover of the cabinet and tighten the screws, Put the plastic protectors /step 15/;



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13.3. Periphery devices assembly

All connections are to be made by means of terminals, mounted on the printed circuit board (Appendix 5). Be advised, that the total consumption of the voltage powering the external devices (terminal “+ 28V”) plus the consumption of the monitored outputs shall not exceed 1A in heavy duty mode.

13.3.1 Mounting periphery devices to relay outputs

The following terminals are used:

- Terminal “+28V” – positive lead of the stabilized direct current supplying the external devices (light and sound signaling devices, executive devices and others);
- Terminal “GND” – chassis ground (negative lead of the stabilized direct current supplying the external devices);
- Terminals “Relay/C”, “Relay/NO”, “Relay/NC”, “Rel Fire/C”, “Rel Fire/NO” and “Rel Fire/NC” – potential free relay contacts, responding at Fire condition (in compliance with the pre-programmed relation fire alarm line – relay outputs);
- Terminals “REL Fault/C”, “REL Fault/NO” and “REL Fault/NC” – potential free relay contacts. When no fault condition is detected terminals “REL Fault/C” and “REL Fault/NO” are connected; upon detection of fault condition terminals “REL Fault/C” and “REL Fault/NC” are connected.

The executive device shall be connected according to Appendix 5.

Unused relay outputs remain unoccupied.

13.4. Connecting interface devices

13.4.1. Global network

USB interface for remote access to the FCP - Mini USB type for connection between the Repeater and the PC application(refer Appendix 3).

13.4.2. Local network

Connection of interface devices to a local network is made via the serial interface CAN 2.0B using the terminals CAN (Appendix 3). If the distance is longer it is recommended the connecting wire to be screened.

13.5. Power supply connection

13.5.1 . From the IFS7002 control panel, which is remote to the IFS7002R .

The connector for external power supply is labeled OUT1 :

*Connect the feeding cables to terminal *POWER* (Appendix 3), observing the polarity:*

- „+” – feeding +24V DC;
- „-“ – feeding cable – 24V DC;

The cable shall be of at least 0,5mm² section.

The other end of the feeding cable is connected to the mains power supply of any of the fire control panels connected to it or another suitable power supply source.

13.5.2 From PSU module mounted in the cabinet of the IFS7002R

The 220Vac mains is connected to the PSU with following polarity :

- L - Phase wiring;
- N - Neutral wiring;
- Ω - Earthing wiring

The width of the cable's wiring should be at least 0.5mm².

14. Repeater start up

14.1. Check the proper connection of power supply.

14.2. Check the proper connection of the CAN network.

14.3. Supply the panel, which the remote panel or power supply is supplied from.

14.4. Configure remote panel in the following order:

14.4.1. The remote panels provides with factory default parameters (section [10.4.5](#)).

14.4.2. If there is need, change (section [10.4.1](#))

- parameter “On/Off” for work in local network;
- language for appearing of menues and messages.

Note 1: There is an option to set-up the CAN network communication with a single One-loop panel in a user-friendly procedure, as follow:

- * Power-up the IFS700R repeater;
- * Wait the panel to start in duty mode;
- * press and hold the default CAN parameters button on the backside of the mainboard (Appendix 3, pos.6);
- * With still holded button push and release the button of the panel reset (Appendix 3, pos. 5);
- * Release the default CAN parameters button (Annex 3, pos.6);
- * Make the same procedure for the IFS7002-1 loop panel;

14.4.3. The RS232 should be set if the panel will be connected to PC (section [10.4.2.1](#)).

14.4.4. Adjust the parameters of the local CAN network (section [10.4.2.2](#)).

- panel name - CAN local object (section [10.4.2.2.1](#))
- panel parameters – address, communication priority level and etc. (section [10.4.2.2.2](#))
- the assigned to the panel remote panel with their names, addresses, connection type and etc. (section [10.4.2.2.3](#)). The procedure is applied to describe all objects connected in the local network.

14.4.5. Introduced passwords for Access Level 2 and 3 (section [10.6](#)).

When out from Setup mode, the remote panel goes for short in System operations and after that in Duty mode – the panel is ready for object protection, if there were made the adjustments of the connected CAN objects from the arranged local network.

15. Conditions of operation, storage and transportation**15.1. Operation and storage**

The repeater shall operate and be kept in closed premises, under the following conditions:

15.1.1. Temperature

- storage - from 5°C to 35°C
- transportation - from minus 10°C to 50°C
- operational - from minus 5°C to 40°C

15.1.2. Relative humidity

- storage - to 80%
- operational - to 93%

15.2. Transportation

The repeater shall be transported by vehicles, in factory packing, in the above stated environmental conditions and at sinusoidal vibrations with acceleration amplitude not more than $4,9\text{m/s}^2$ in frequency range 10 to 150Hz.

16. Warranty

The producer guarantees compliance of the device with EN 54-2: 1997.

The warrant period is 24 months from the date of the purchase, providing that:

- the conditions of storage and transportation have been observed;
- the startup has been done by authorized personnel by the producer.
- the requirements for operation stated herein have been observed.

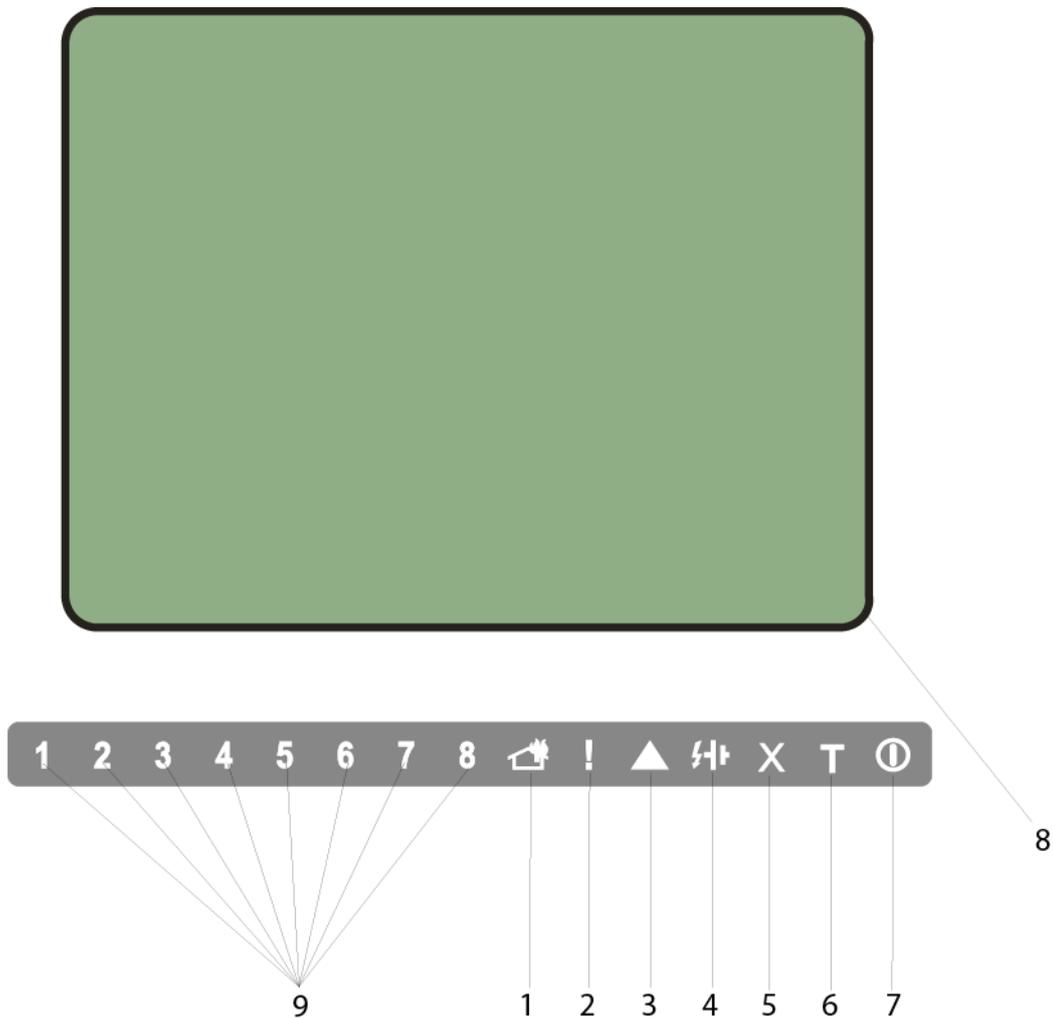
UniPOS wishes you a successful work!

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17. Appendixes

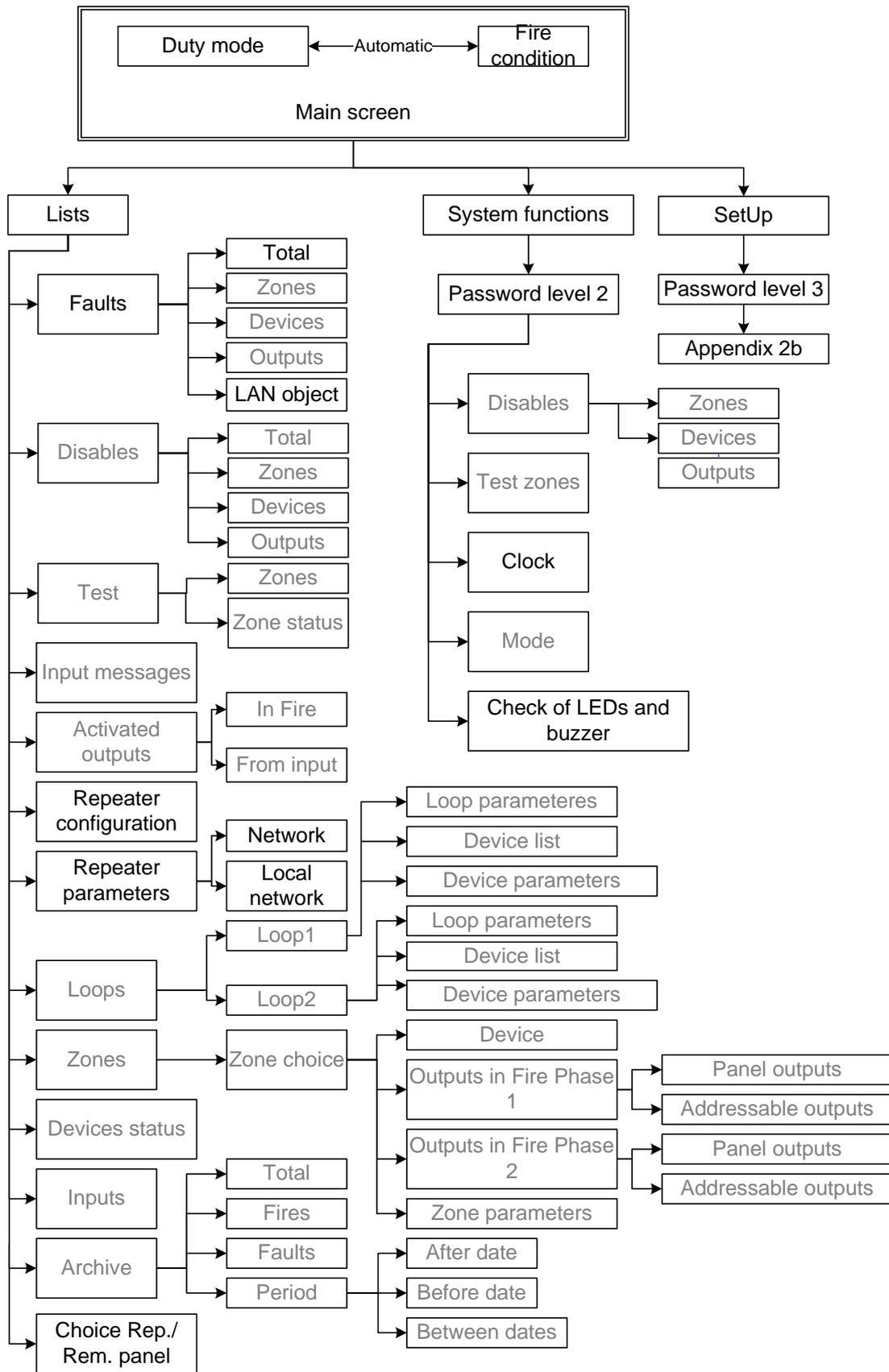
Appendix 1



- 1 Common indicator for fire condition
- 2 Common indicator for fault condition
- 3 Indicator for System error
- 4 Indicator for Fault in power supply
- 5 Indicator for Disabled component
- 6 Test indicator
- 7 Indicator for Power supply
- 8 LCD display
- 9 Dedicated remote-fire zone indication for zone numbers in the range zone#1 to zone#8

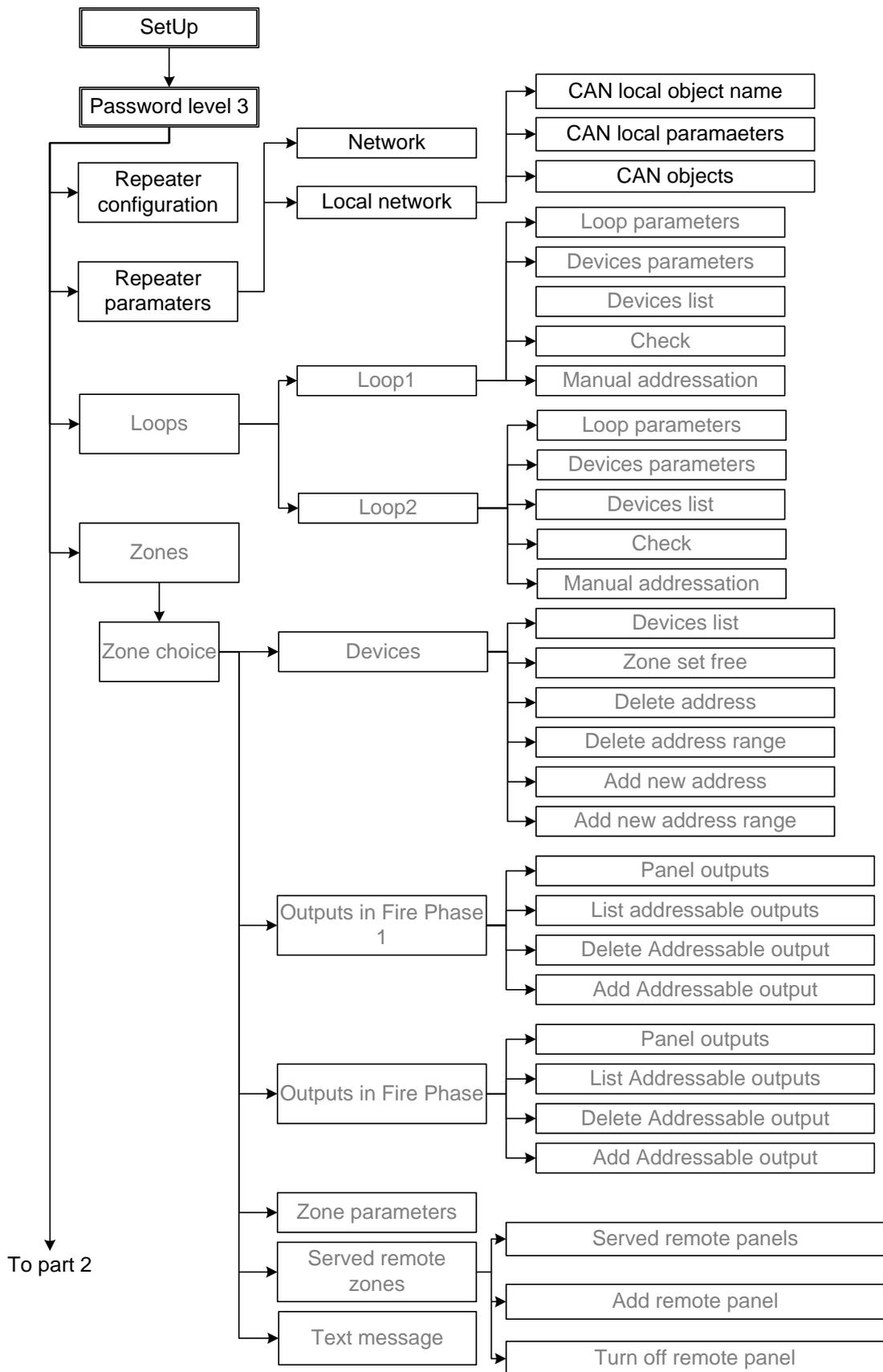
Front panel of repeater IFS7002R

Appendix 2



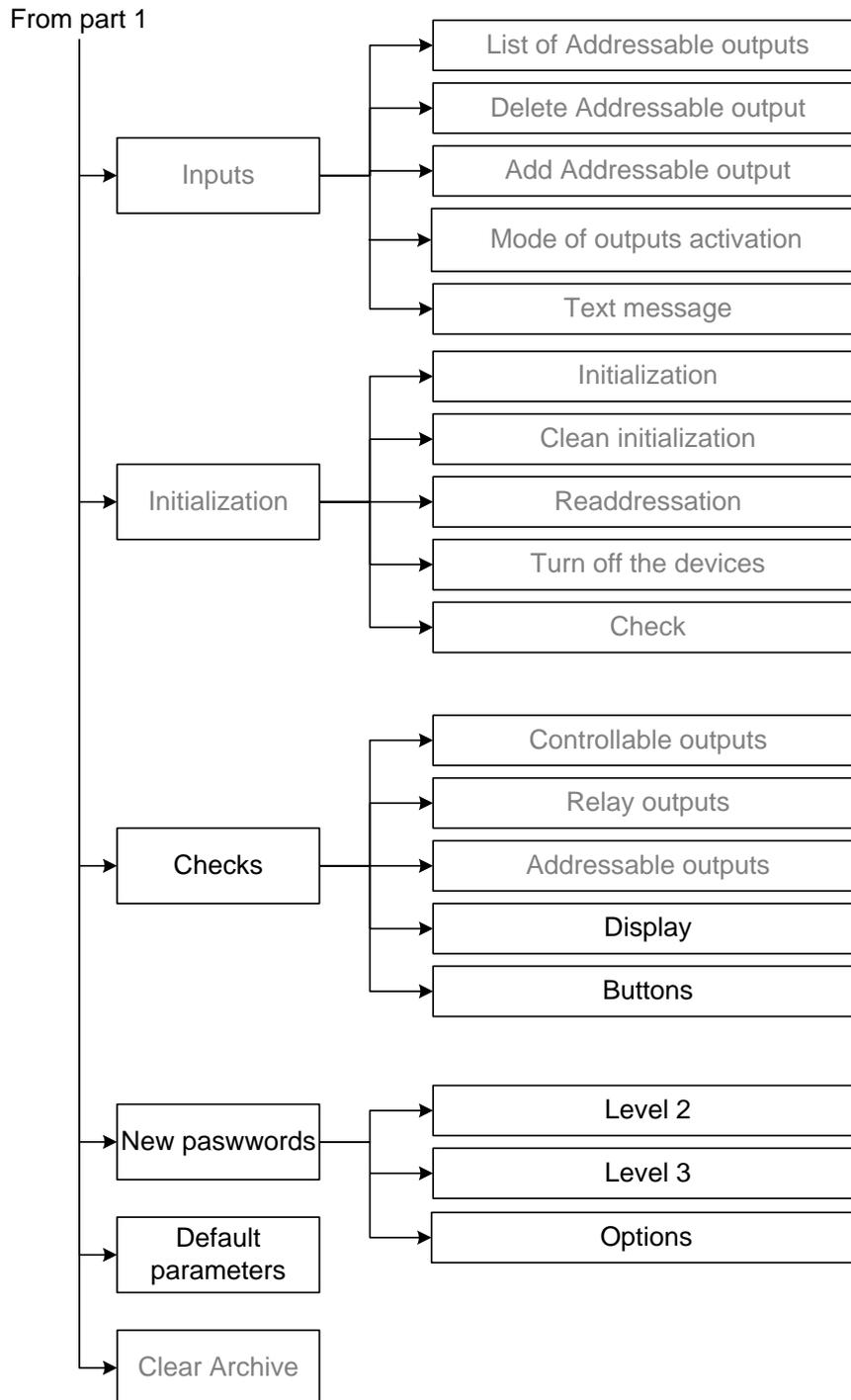
a) Main menu

Appendix 2 continued



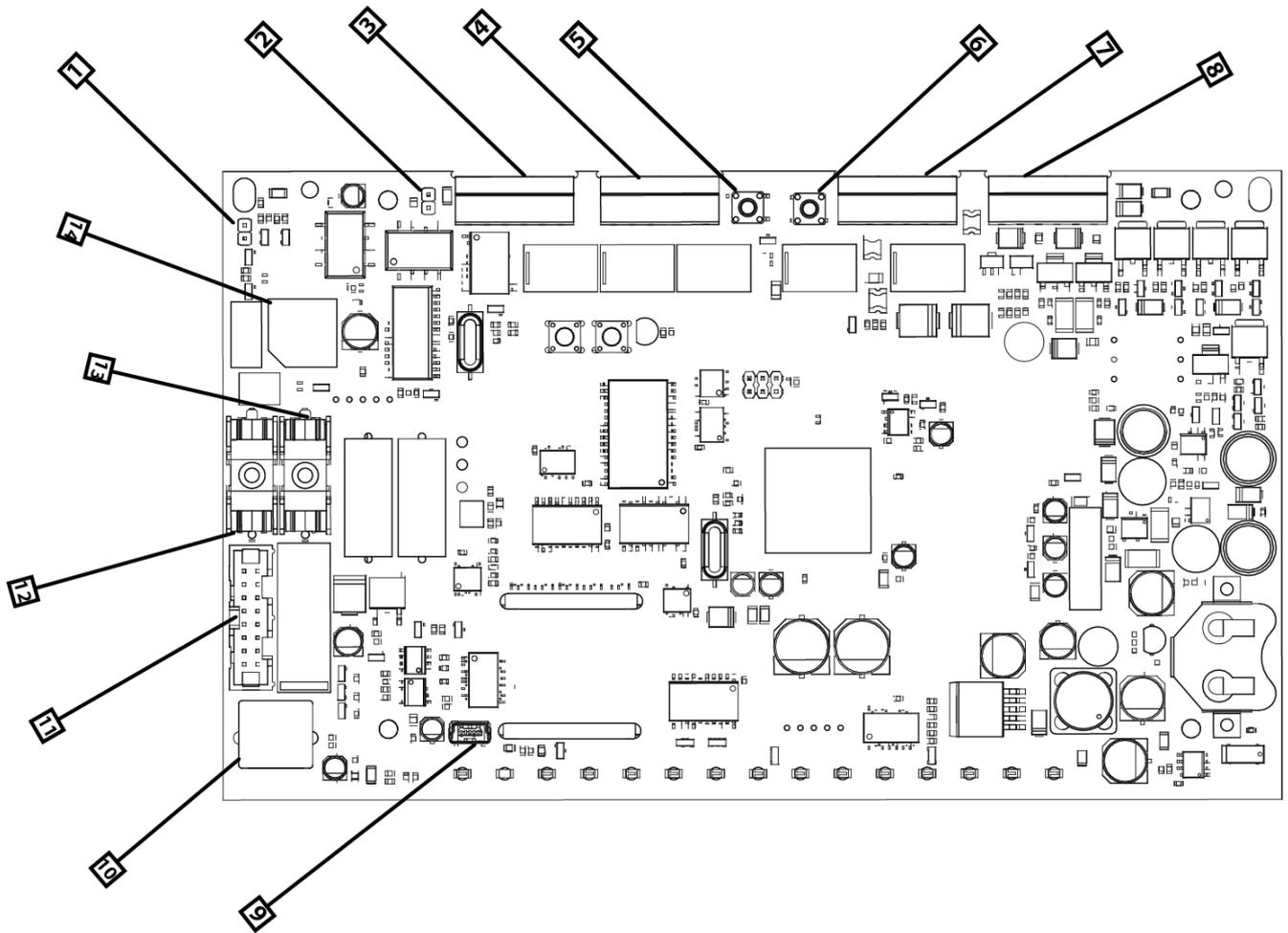
b) SetUp Menu (part 1)

Appendix 2 continued

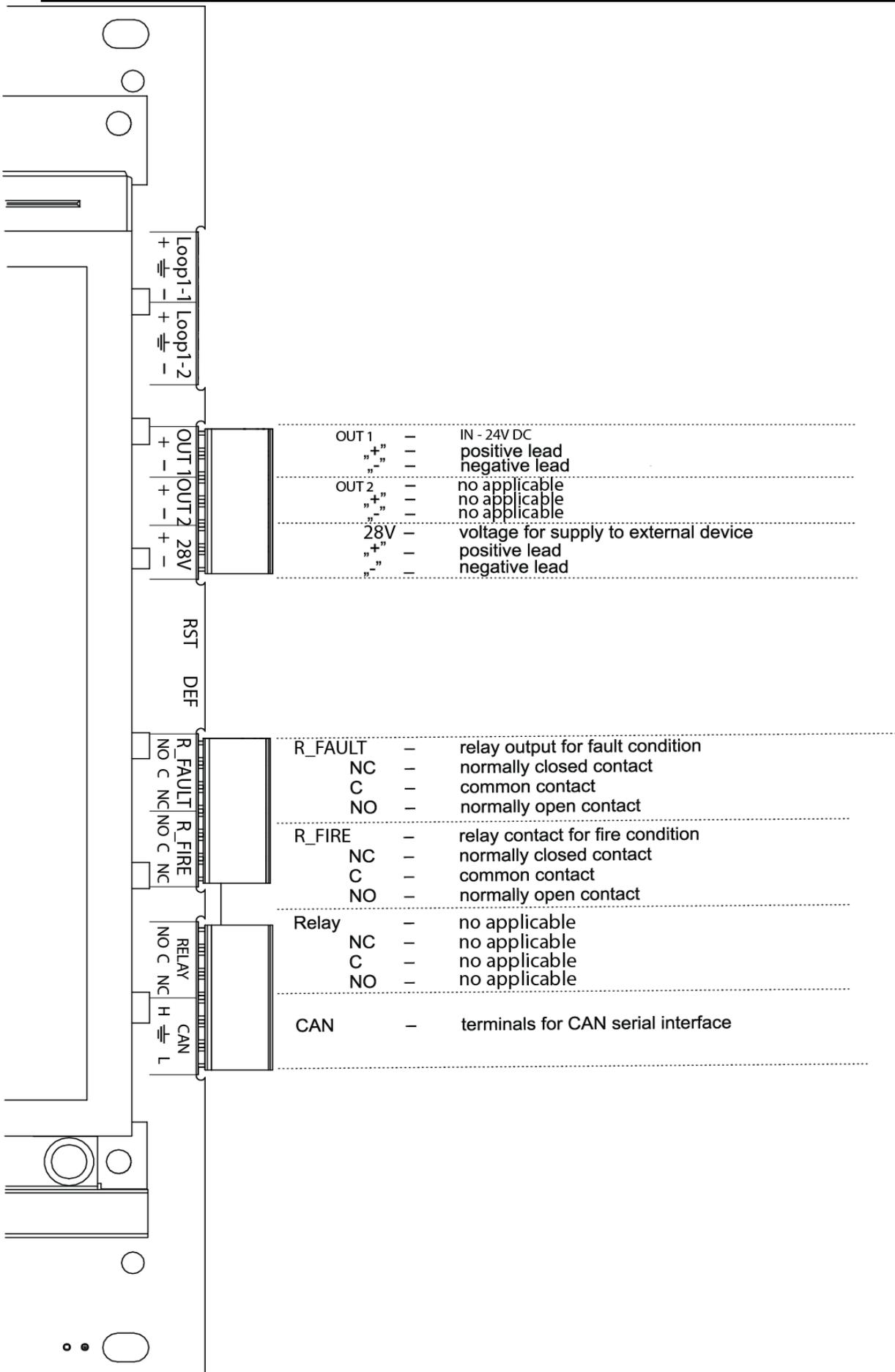


c) SetUp Menu (part 2)

Appendix 3



1. Jumper to disable the local beeper;
2. CAN termination jumper;
3. 4. 7. 8. Signal cabling terminals;
5. Panel's reset button;
6. CAN default parameters button;
9. Mini USB terminal for connection with a PC;
10. PS2 terminal for connection with a keyboard;
11. PSU connector;
12. User 28Vdc ;
13. Accumulator batteries fuse - 6.3 Amps;
14. Fuse 28 Vdc - 4 Amps;



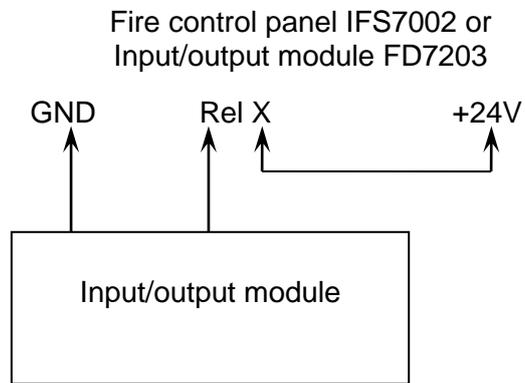
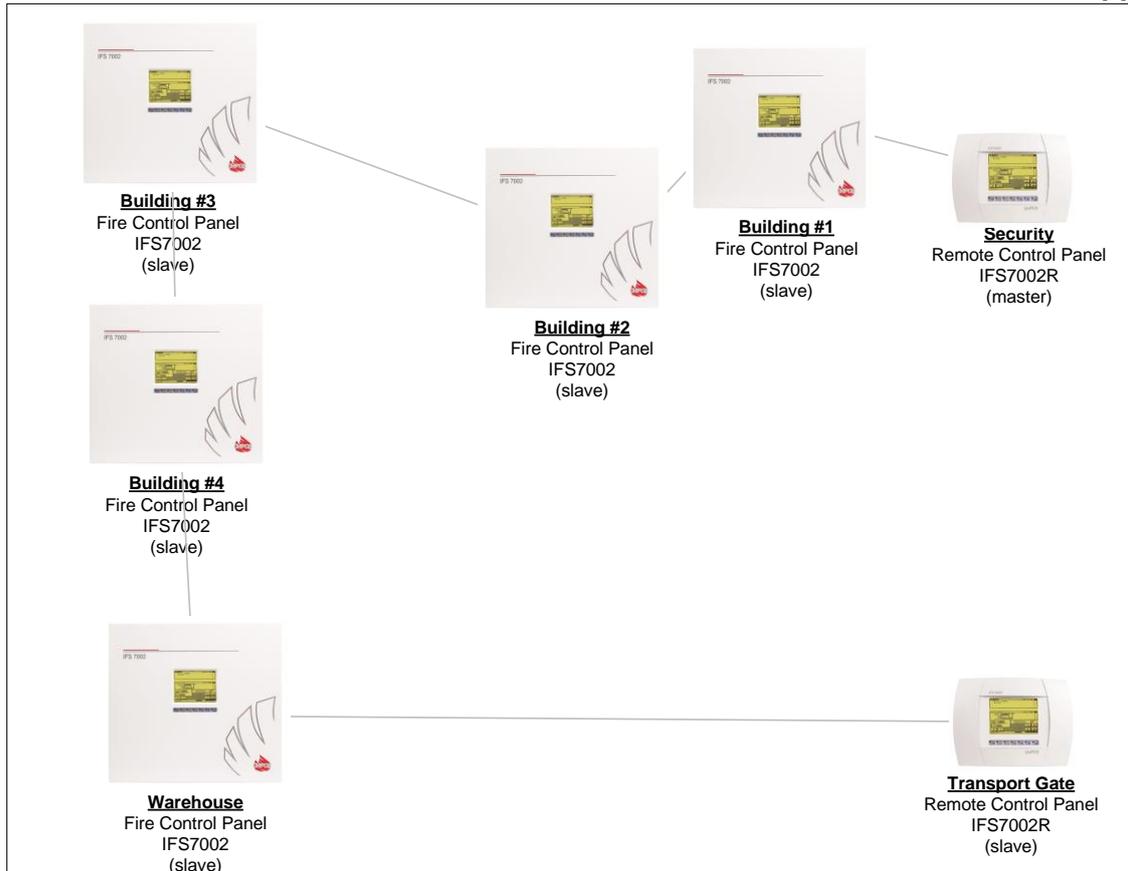


Diagram for connecting Input/output module to relay output

Appendix 6



1. Menu "Setup/Repeater configuration" (item 10.4.1)

Local network: **On**
 Periphery Device 1: **On**
 Periphery Device 2: **On**
 Periphery Device 3: **On**
 Power Loop: **On**
 Language: **English**

2. Configuration panel parameters "Repeater parameters" (item 10.4.2).

2.1. Menu "Setup/Repeater parameters/Network" (item 10.4.2.1).

2.2. Menu "Setup/Repeater parameters/Local network" (item 10.4.2.2).

2.2.1. Enter the name in the menu "Setup/Repeater parameters/Local network/CAN local object name" – **Security**.

2.2.2. Configuration panel parameters in menu "Setup/Repeater parameters/Local network/CAN local parameters":

Address of the repeater: **1**
 TOut/RecNext, [0.1s]: **30 (default)**
 TOut/RecConf, [0.1s]: **50 (default)**
 TOut/RecResp, [0.1s]: **60 (default)**
 Counter 'Beep' function: **0 (default)**
 MaxErrRec: **3 (default)**
 MaxErrSend: **2 (default)**
 Check period [s]: **5 (default)**
 Rate, [Kbits/s]: **080**
 Priority communic.level: **Master**
 Total connected CAN objects: **6**

2.2.2. Add connected objects and describe their parameters in the menu "Setup/Repeater parameters/Local network/CAN objects/Add new CAN object".

On the screen are show connected to the current CAN objects.



Repetor pentru centralele adresabile - UNIPPOS IFS7002R

Autentificate pentru pret

LOGIN

Repetor pentru centralele adresabile din seria IFS7002, afisaj LCD monocrom tip touch screen, Interfata comunicare cu PC tip RS232 sau in retea cu RS232-LAN, interfata comunicare cu dispozitive externe tip CAN 2.0B, conexiune PS2 pentru tastatura externa, posibilitate de legare in retea pana la 31 repetoare.

- Producator **UNIPPOS**
- Tip **Repetor**
- Configurateie
- Afisaj **LCD touch screen**
- Rezolutie afisaj **320x240**
- Semnalizare sonora **Incorporat**
- Interfata comunicare
- Comunicare cu centrala adresabila **CAN 2.0B**
- Comunicare cu PC **RS-232**
- Comunicare LAN **Optional cu convertor RS-LAN**
- Tastatura externa **PS2**
- Alimentare
- Din centrala de alarma **(23±7)V DC**
- Consum **180mA**
- De la sursa externa cf. EN54-4 **12-30V DC**
- Consum **310mA**
- Dimensiuni **290x219x46mm**
- Greutate (fara acumulatori) **1000.00 grame**