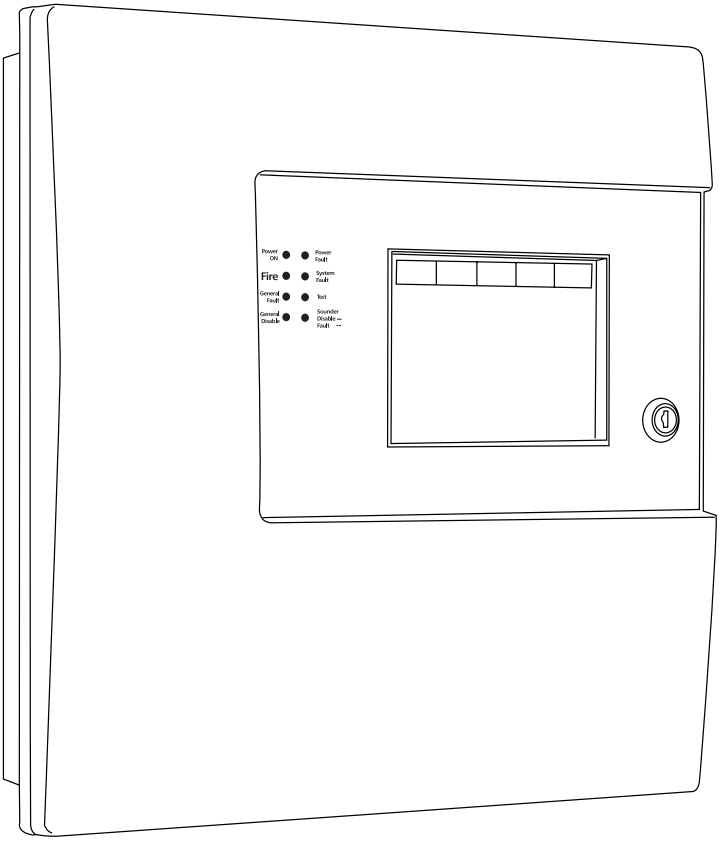
ULCTPR3000 Analogue Touchscreen Repeater Panel

Installation and Operation Manual

SIGNALING
UL
LISTED
FIRE ALARM
EQUIPMENT
4AC5



Powering Business Worldwide

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DOCUMENT UPDATE NOTES

S.No.	Release / Change Notes	Date
A	Eaton Update	January 2019

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Important Safety Information

Personnel who install, maintain or repair this equipment must read the safety information below before starting work.

⚠ WARNING

Indicates a potentially hazardous situation which, if not avoided, can result in serious injury or death.

⚠ CAUTION

Indicates a potentially hazardous situation which, if not avoided, can result in minor to moderate injury, or serious damage to the product.

General Safety Precautions

⚠ NOTICE

The operating system of the control panel may be revised as a result of enhancements to the system software or hardware. Revisions to this manual will be issued and supplied on request and should be logged in the table supplied on page 4.

⚠ CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE

This product must only be disposed of in accordance with the WEEE directive.

System Installation and Design

Introduction

This manual provides information on the installation and operation of the Eaton Fire Systems ULCTPR3000 repeater panel.

Notice. This passive repeater is used for suplimentery information only. The operating system of the ULCTPR3000 may be revised as a result of enhancements to the system software or hardware.

THIS PRODUCT INCORPORATES FIELD-PROGRAMMABLE SOFTWARE. IN ORDER FOR THE PRODUCT TO COMPLY WITH THE REQUIREMENTS IN THE STANDARD FOR CONTROL UNITS AND ACCESSORIES FOR FIRE ALARM SYSTEMS, UL 864, CERTAIN PROGRAMMING FEATURES OR OPTIONS MUST BE LIMITED TO SPECIFIC VALUES OR NOT USED AT ALL AS INDICATED BELOW

PROGRAM FEATURE OR OPTION	PERMITTED IN UL 864	POSSIBLE SETTINGS	SETTINGS PERMITTED IN UL 864
ACTIVE	**NO**	**ACTIVE/PASSIVE**	**PASSIVE**
PROGRAMMABLE INPUT	**NO**	**RESET, FIRE, EVACUATE, PRE-ALARM, SILENCE, FAULT**	**NOT USED**

For maintenance recommendations refer to the NFPA 72 National Fire Alarm Code, 2007.

Software release: DFCF V03-03-50-xx

Fire Alarm System Limitations

An automatic fire alarm system – in general is made up of smoke detectors, heat detectors, manual pull stations, Call points, audible warning devices, and fire alarm control panels with remote notification capability, which can supply early warning of a developing fire. Such a system, on the other hand, is unable to assure protection against property damage or loss of life resulting from a fire. The Manufacturer recommends that smoke and /or heat detectors must be positioned throughout a protected premise following the recommendations of the current edition of the National Fire Protection Association Standard 72 (NFPA72), manufacturer's recommendations, State and local codes, and the recommendations contained in the Guide for Proper Use of System Smoke Detectors, which is made available at no charge to all installing dealers. A study by the Federal Emergency Management Agency (an agency of the United States government) indicated that smoke detectors may not go off in as many as 35%of all fires. While fire alarm systems are intended to provide early warning against fire, they cannot promise warning or protection against fire. A fire alarm system may not provide timely or sufficient notice, or might not function, for a diversity of reasons.

Smoke detectors may not sense fire where smoke cannot reach the detectors such as in chimneys, in or behind walls, on roofs, or on the other side of closed doors Smoke detectors also may not sense afire on another level or floor of a building. A second-floor detector, for example, may not sense a first-floor or basement fire. Particles of combustion or "smoke" from a developing fire may not reach the sensing chambers of smoke detectors because:-

- Barriers such as closed or partially closed doors, walls, or chimneys may inhibit particle or smoke flow.
- Smoke particles may become "cold," stratify, and not reach the ca ling or upper walls where detectors are located.
- Smoke particles may be blown away from detectors by air outlets.
- Smoke particles may be drawn into air returns before reaching the detector.

The amount of "smoke" present may be insufficient to alarm the smoke detectors. Smoke detectors are designed to alarm at various levels of smoke density. If such density levels are not created by a developing fire at the location of detectors, the detectors will not go into alarm. Smoke detectors, even when working property, have sensing limitations. Detectors that have photo electronic sensing chambers tend to detect smoldering fires better than flaming fires, which have little visible smoke. Detectors that have ionizing-type sensing chambers tend to detect fast –flaming fires better than smoldering fires. Because fires develop in different ways and are often unpredictable in their growth, both type of detector is necessarily best and a given type of detector may not provide adequate warning of a fire. Smoke detectors cannot be expected to provide adequate warning of fires caused by arson, children playing with matches (especially in bedrooms), smoking in bed, and violent explosions (caused by escaping gas, improper storage of flammable materials, etc.).

Heat detectors do not sense particles of combustion and alarm only when heat on their sensors increases at a preset rate or reaches a predetermined level. Rateof- rise heat detectors may be subject to reduced sensitivity overtime. For this reason, the rate-of-rise feature of each detector should be tested at least once per year by a qualified fire protection expert. Heat detectors are designed to protect property, not life.

IMPORTANT! Smoke detectors must be installed in the same room as the control panel and in rooms used by the system for the connection of alarm transmission wiring, communications, signaling, and/or power. If detectors are not located, a developing fire may damage the alarm system, crippling its ability to report a fire.

Audible warning devices such as bells may not alert people if these devices are located on the other side of closed or partly open doors or are located on another floor of a building. Any warning device may fail to alert people with a disability or those who have recently consumed drugs, alcohol or medication.

Please note that:

Strobes can, under certain circumstances, cause seizures in people with conditions such as epilepsy. Studies have shown that certain people, even when they hear a fire alarm signal, do not respond or comprehend the meaning of the signal. It is the property owner's responsibility to conduct fire drills and other training exercise to make people aware of fire alarm signals and instruct them on the proper reaction to alarm signals.

In rare instances, the sounding of a warning device can cause temporary or permanent hearing loss.

A fire alarm system will not operate without any electrical power If AC power fails, the system will operate from standby batteries only for a specified time and only if the batteries have been properly maintained and replaced regularly. Equipment used in the system may not be technically compatible with the control. It is essential to use only equipment listed for service with your control panel Telephone lines needed to transmit alarm signals from a premise to a central monitoring station may be out of service or temporarily Supervisoryd. For added protection against telephone line failure, backup radio transmission systems are recommended.

The most common cause of fire alarm malfunction is insufficient maintenance. To keep the entire fire alarm system in excellent working order, ongoing maintenance is required as the manufacturer's recommendations, and UL and NFPA standards. At a minimum, the requirements of NFPA 70, 72 shall be followed. Environments with large amounts of dust, dirt or high air velocity require more frequent maintenance. A maintenance agreement should be arranged through the local manufacturer's representative. Maintenance should be scheduled monthly or as required by National and /or local fire codes and should be performed by authorized professional fire alarm installers only. Adequate written records of all inspections should be kept.

Installation Precautions

⚠ WARNING

Several different sources of power can be connected to the fire alarm control panel. Disconnect all sources of power before servicing the Control unit and associated equipment may be damaged by removing and/or inserting cards, modules or interconnecting cables while the unit is energized. Do not attempt to install, service, or operate this unit until this manual is read and understood fully.

⚠ CAUTION

System Reacceptance Test after Software Changes. To ensure proper system operation, this product must be tested in accordance with NFPA 70, 72 after any programming operation or change in site -specific software.
Reacceptance testing is required after any change, addition or deletion of system

System Installation and Design

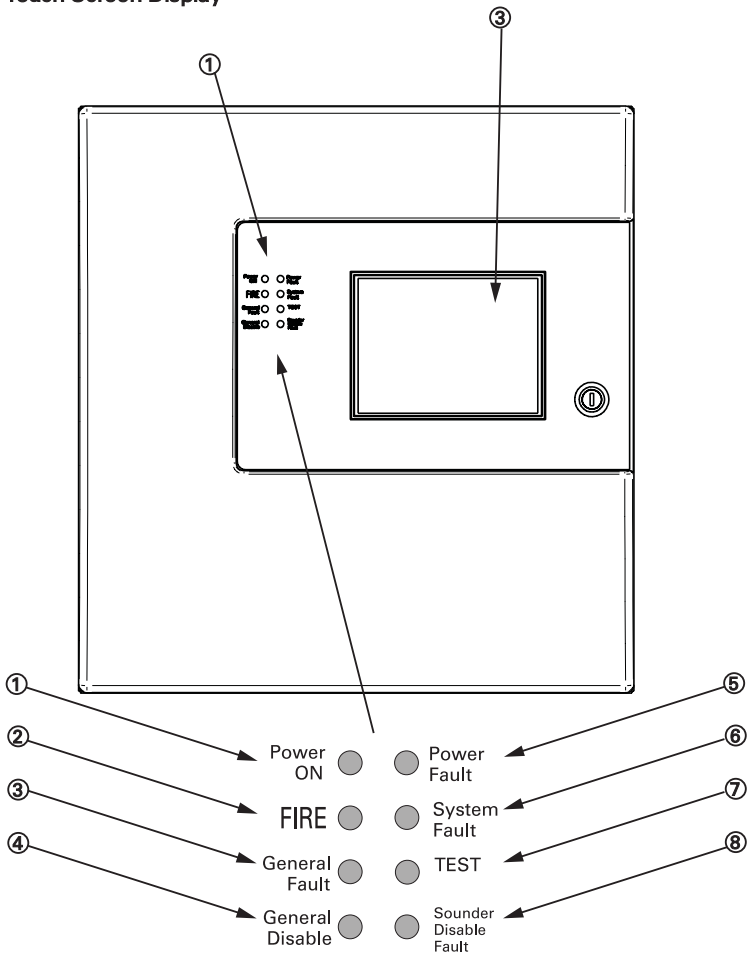
The ULCTPR3000 fire detection repeater panel provides sophisticated 'touch screen' functionality yet achieves a simple end-user interface operation within a compact panel design. The ULCTPR3000 is designed to work with Eaton Analogue Addressable Fire alarm Control Panels as a network repeater. It is fully compliant with the statutory requirement of UL854 9th Edition and includes an integral monitor PSU compliant with the latest requirements of EN54 pt4 together with a wide range of user controllable functions; make the panel suitable for a wide range of projects.

The Eaton repeater panel is easy to install and commission all text is transmitted via the network and is automatically updated and as the following features:

- Plug and play. All information is downloading through the network
- Touch Screen Display
- Integrated Network capability allows networking with Eaton latest range of analogue addressable Fire Alarm Control Panels
- Multi language capability
- 2 Form C programmable Auxiliary relays
- Programmable input is available
- Up to 1000 event log
- PSU approved to UL 864 9th Edition & EN54 Pt4
- Utilises 2 core cables and up to 126 repeaters can be connected to the network

Panel Controls & Indicators

1. System LED's
2. Zonal LED's
3. Touch Screen Display



LED	Name	Function	Action
1	Power On	Shows Panel is On	Check Indicator is Illuminated
2	Fire	Indicators Panel has Detected a Fire	Impliment Fire Action Procedure
3	General Fault	Monitors Devices for Faults e.g. Smoke detectors/Sounders	Report to System Supervisor
4	General Disable	Monitors Fire Panel for Faults	Report Fault to Service Dept
5	Power Fault	Monitor Internal Battery Charger	Report Fault to Service Dept
6	System Fault	Monitors Fire Panel for Faults	Report Fault to Service Dept
7	Test	Supervisor/Engineer is Testing the Systems	Report to System Supervisor
8	Sounder	Indicates the Sounder Status	Check with System Supervisor

Technical Specification

Compatibility	With UL Addressable Panels
Standards	UL864 9th Edition NDFA 70-72
Display	Touch Screen
System Indicators	Power on, Alarm, General Trouble, General Supervisory, Power Trouble, System Trouble, Test, NAC Trouble.
Colour	Graphite
Network SLC	5V DC, 11 mA max Maximum Line impedance 50Ω Power Limited
Mains Input, Supervised	Voltage 120/240 AC 60Hz Current 100mA
Batteries	2x12V DC, 7Ah, 0.1 derating
Battery Charge Current	1.0 Amp
Standby period	24 hours + 30min. alarm
Programable Relay (Fire)	30V, 1 Amp, Resistive
Humidity (Non Condensing)	0 - 93 %RH
Operating Temp	0 to 49 degree C
Mechanical	PC/ABS, UL94 5VA rating
Weight	9Kg (with batteries) 4Kg (without batteries)
Dimensions	395(h)x332(w)x115(d)mm
IP Rating	IP40 - for indoor applications
Cable Entry	11x20mm knockouts top of backbox
Download Comms	RS232 port

Installation

Fixing details

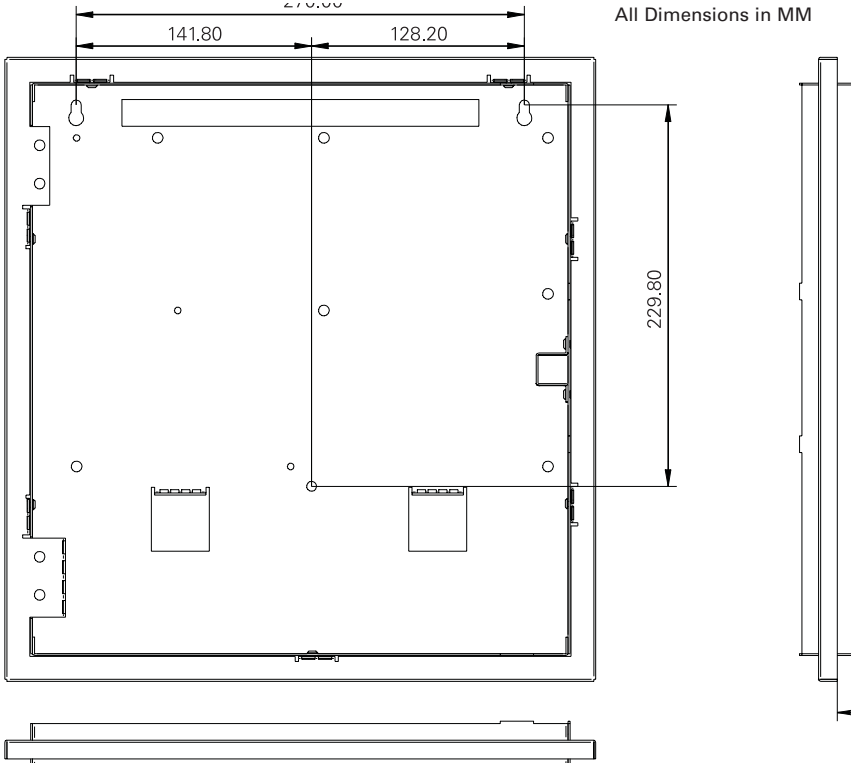
Read all the installation instructions before commencing with the installation. The installation of this panel must be carried out by a suitably qualified /trained person.

The electronic components within the fire panel are Static Sensitive. Do not touch the electronics directly.

General

As with all electrical equipment the ULCTPR3000 panels should be installed in a clean, dry, well ventilated area, away from direct sunlight. The unit is designed to operate in temperatures between 0° and 49°C, temperatures outside these parameters should be avoided. The panel should be located away from any potential hazard, in a position where it is readily accessible to both the fire services and authorised users, ideally on the perimeter of the building near a designated entrance point.

Mounting the Backbox



External Connections

Installing Cabling

Once the backbox is mounted the next stage is to install the power and loop cables and fit the glands.

Connecting the AC Power and earth connection

⚠ WARNING

To reduce the risk of electrical shock, make sure that all power has been turned off or disconnected prior to attempting to connect power to the Power Supply.

Note: Make sure that AC main circuit breaker is off before wiring any connection between mains and control panel

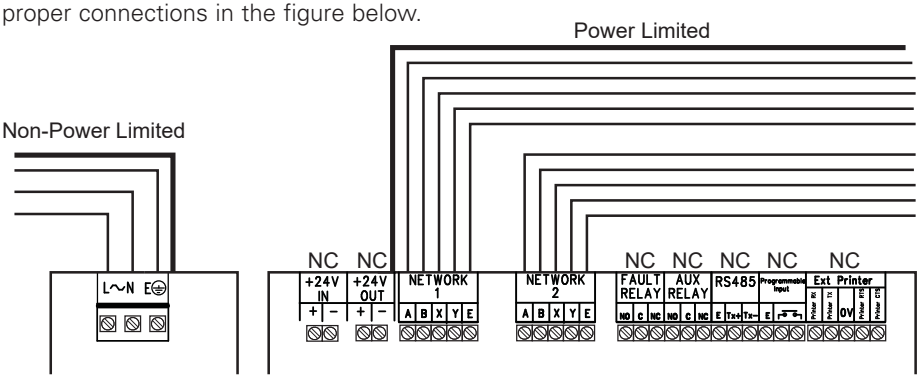
The primary power needed for the Addressable Repeater Panel is 120VAC 60hz or 240VAC 60Hz.

1. Enter Power Cable into Cabinet knock out hole.
2. Attach the brown (live) wire from the source to terminal “Line” (USA use color black wire).
3. Attach the blue (neutral) wire from the source to the “Neutral” terminal (USA use color white wire).
4. Attach the ground wire from the source to the “GD” terminal block (USA use color green wire).

Cable Anchorage

The mains cable must be fixed securely with a 20mm cable gland. Remove a suitably located knockout feed the cable through the gland and bolt the gland to the Backbox as shown. Secure the cable to the side of the box using the cable clip provided.

Connect wiring from AC mains to TB100 on the PCBA2209 being careful to observe proper connections in the figure below.

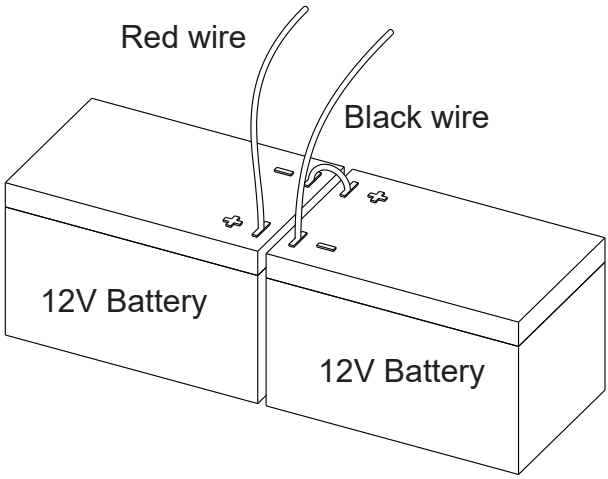


Note: Apply the AC Power BEFORE connecting the batteries to the Panel!

Note: Apply AC power to panel after the system is completely installed and visually checked.

Battery Installation

The battery is placed at the bottom of the enclosure. The ULCTPR3000 is fully protected if the batteries are connected in the opposite direction the battery fault yellow led will show steady in such a condition.



Networking

Up to One Hundred & Twenty Six Panels or repeaters can be networked together to operate as a single networked system. To achieve this each panel must be fitted with a network card (Optional Extra) When operating as a networked system all fire and fault event information is displayed at every panel, silencing and resetting of alarms can also be carried out from any panel on a networked system if panels are suitably configured.

Networked panels are connected using a loop topology as illustrated.

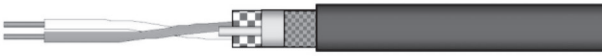
Networked panels can be used as active repeaters, alternatively a low cost passive repeater is available. This can either be connected a loop of an individual panel or it can be connected to the network.

The recommended network cable for the network connection between panels is an enhanced Firetuf cable Manufactured by Draka cables (part number 910234.) Screen continuity must be maintained throughout the entire network circuit including at each junction point. The screen should only be earthed at the connection point provided at the first panel and not at any other point. The screen or drain wire of the network cable should not be considered as a safety earth and therefore should not be connected to terminals marked with the earth symbol, except at the panel, and should not be insulated with green and yellow sleeving. Where the network cable passes between buildings, screen continuity should not be maintained from building to building. A booster device must however be used irrespective of cable length and should be fitted at a suitable point in the link between buildings. The cable screen should be connected to the earth of one panel in each building. 102 S terminator should be fitted at the beginning and the end of the network. If the distance in the network exceeds 1KM the booster should be used. The booster requires 24V local supply, which can be connected to nearest Addressable Panel.

Cable Wiring

Only the cable types listed below are allowable for loop connections.
DRAKA Cables (Part Number 910234)

Technical Specification



Cabling Application	Applicable Standards
Circuit integrity Structured Wiring	ISO/IEC 11801:95
Alarm/Lighting Cable Part Number 910234	EN 50173:95
Patent Protected Design	Fire Propagation Test : UL 1581 VW1; IEC60332.3; Cct Integrity tests: IEC 60331; BS5839: 2002

Cable construction

Conductor	Bare Cu	Outside Diameter of Conductor	0.65 mm
Insulator Material	Wire	Outside Diameter of Insulation	1.70 mm
Number of Twisted Pairs	PE/Sil Rbr	Outside Diameter of Sheath	5.3 mm
Glass Tape	1	Weight OHLS	15.8 kg/km
Screen Material	Mica	Sheath Colour (OEM Specified)	Various
Braid	Ali/Mylar	Sheath Printing (up to 24 characters)	Batch No. & Metre marking
Sheath Material	TCWB OHLS		

Cable Properties		**Electrical Characteristics @ 20 °C**	
Min. Installation Bend Radius	8 x Dia	Return Loss Rl	>IEC dB
Min. Installed Bending Radius	4 x Dia	Characteristic impedance @	100±5Ù
Max. Installation Tension	50N	10MHz	30 Ù/100m
Max. Installed Tension	Zero	DC Conductor Loop Resistance	?2%
InstTemp. Range Installed	0 to 0ºC	Max. Resistance unbalance	57%
Operating Temp. Range	-20 to 60ºC	Nominal Velocity of Propagation Insulation Resistance (500V) 300/500v ratedq	?5000 MÙ.km

Fire tests BS 5839: 2002 & IEC60331

Continued Data Operation @ 950°	>3 Hours
Smoke test	passed
Approvals	passed

When choosing your preferred cable type, you must take note of the following cable and wiring requirements:

1. The cable must be 2 core screened with an over sheath.
2. Maximum loop length with any of the above cables is 1KM
3. Multicore cable should not be used for detector wiring.
4. The screen or drain wire of the network cable should not be considered as a safety earth.
5. Screen continuity must be maintained throughout the entire network circuit including at each junction point.
6. Where the network cable passes between buildings, screen continuity should not be maintained from building to building. A booster device must however be used irrespective of cable length and should be fitted at a suitable point in the link between buildings. The cable screen should be connected to the earth of one panel in each building.

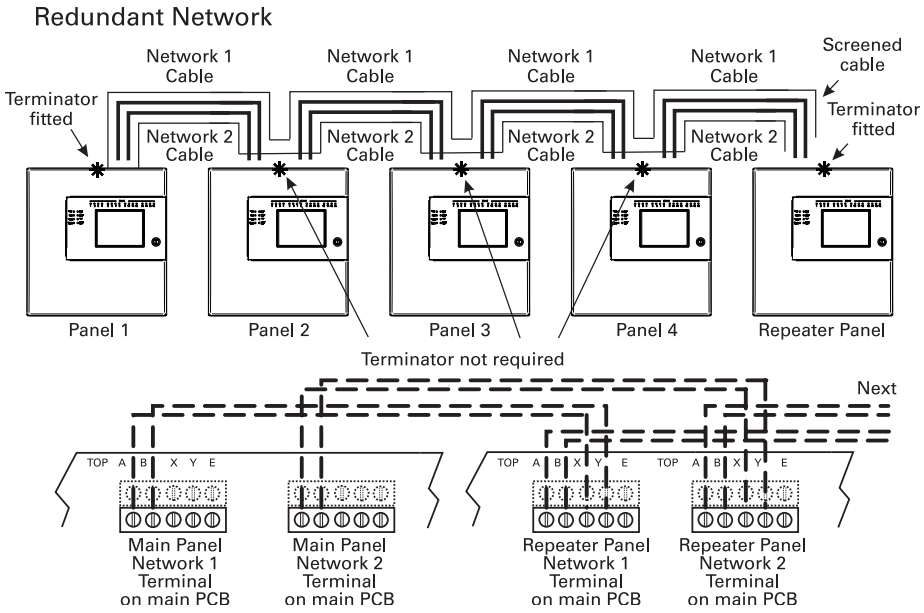
Based on the above cable, the maximum acceptable length between signal boosters is 1000 Metres. This distance can only be achieved when the above cable is used, Eaton lighting and security does not recommend the use of other network cables.

Once the maximum cable length has been reached, a booster must be fitted which then allows a further length of the same distance (1000 Metres for the recommended cable). A maximum of 5 network boosters can be used

N.B. Repeater control panels do not act as boosters, therefore the location of such panels is irrelevant when calculating cable lengths and the requirement for booster devices. For convenience when using 24V boosters (see following) it may be desirable to house the booster near to an repeater control panel to derive a convenient power supply.

Note: Eaton Network cards are fitted with loop terminators as standard please cut if not required.

Daisy Chain configuration



Commissioning the Panel

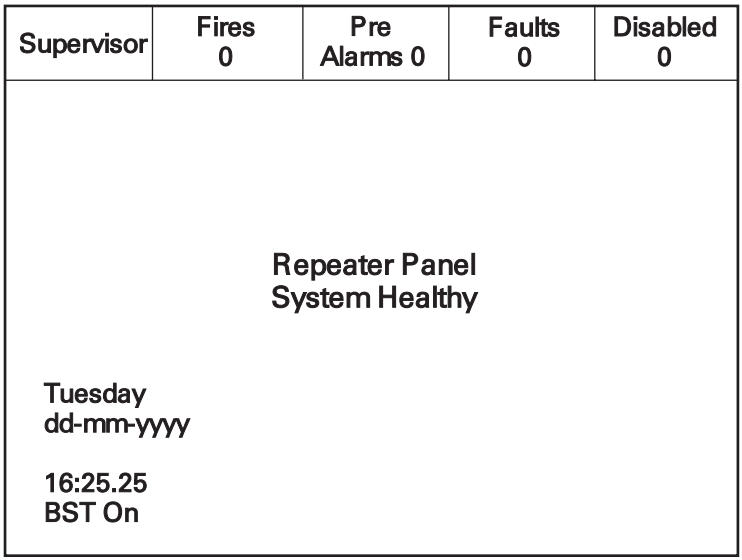
Commissioning

The Eaton Repeater is a plug & play technology where downloading of text information through a PC is not required as the text information is downloaded via the network.

1. Supply the network address (page 45)
2. Select the repeater mode information (page 36)
3. Program the relays output and programable input if required (page 43 & 44)
4. Select the power supply option (page 48)

Panel Controls and Indicators

Touch Screen Display



The Touch Screen is a multi-function display consisting 320x240 dots featuring high intensity backlighting. In normal operation, the display indicates as above with the backlighting off.

During an event on the system the display shows the FIRST EVENT and LAST EVENT plus other events as space allows.

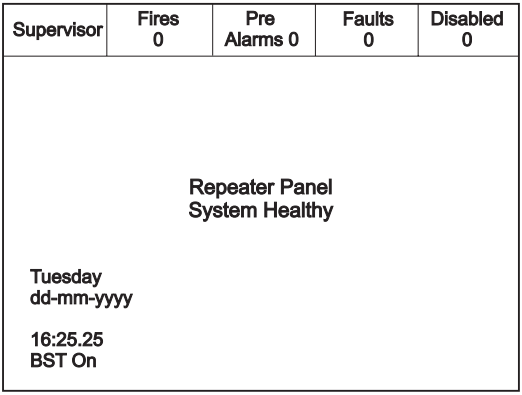
The last 2 lines are normally used to display the total number of events, but they are also used for scrolling fire conditions, faults, pre alarms or disabled devices independently or for displaying a reduced menu when in fire condition.

When an event occurs the Touch Screen backlighting comes on unless there is a mains power supply fault.

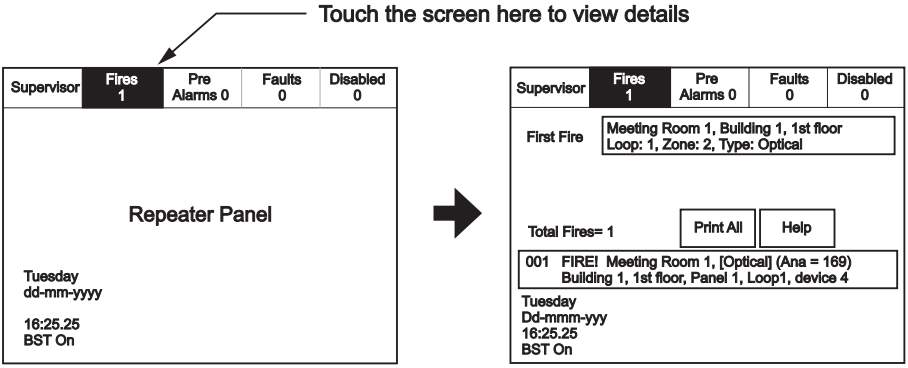
Use the Touch Screen to scroll through all active events on the system by using the SCROLL UP and SCROLL DOWN buttons (available at access level 1). You can display the contents of the log and also view details of any fires, faults, pre-alarms,faults or disablements.. When displaying the system menu on the Touch Screen, the last 5 lines of the display are shown in reverse text.

Panel Operation

The Panel is operated via a backlit touch screen. The default fire screen is shown below. From this screen all the panels functions can be operated. The first time you touch the screen the backlight will illuminate the panel.

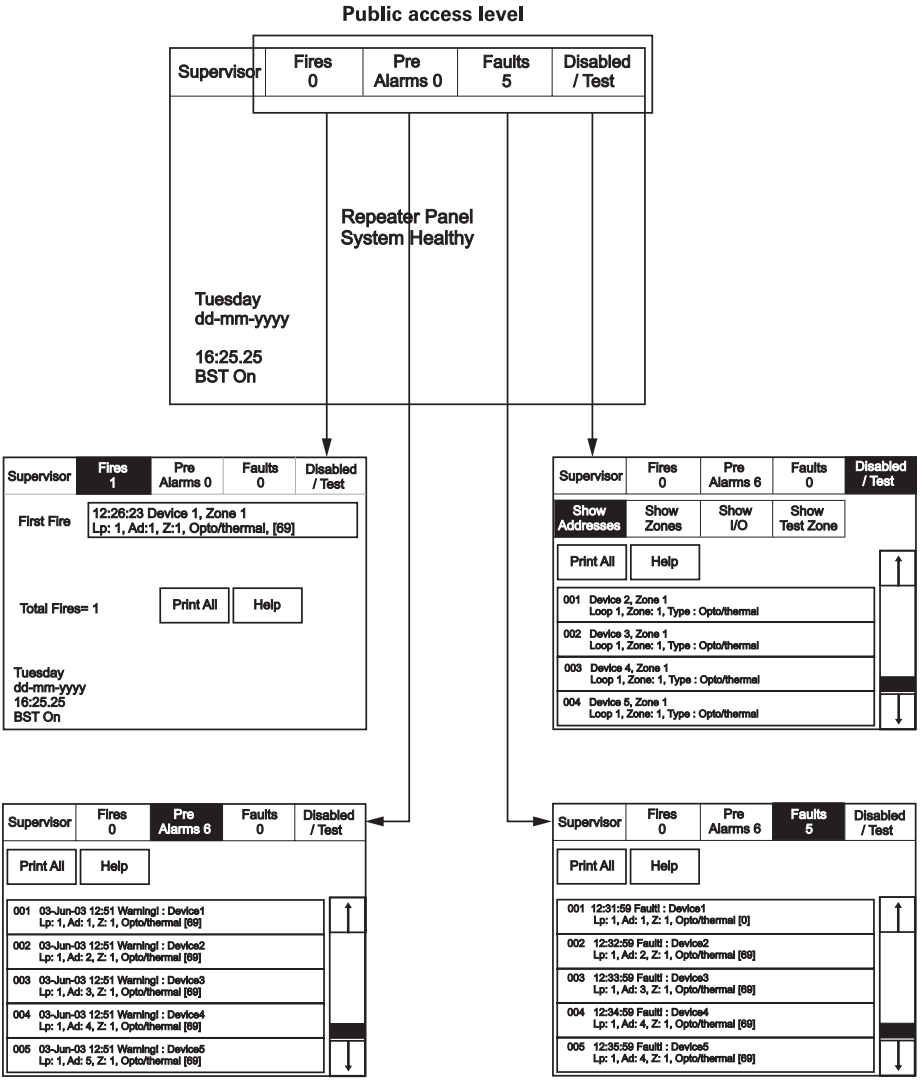


Pressing a field will highlight it and forward to the next screen as shown below.



Public Access Level 1

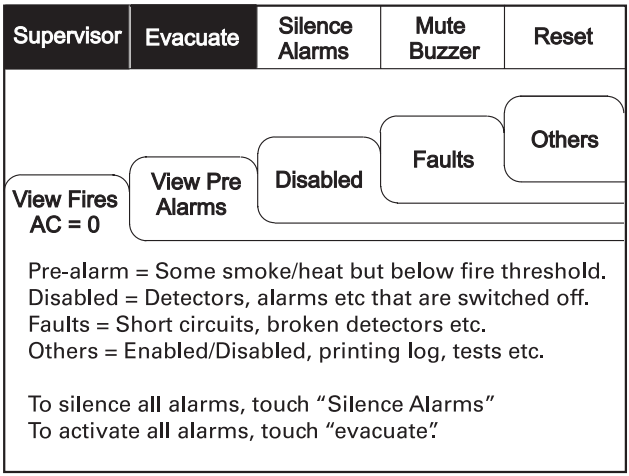
Public access level does not require an access code and allows anybody to review the functions outlined below.



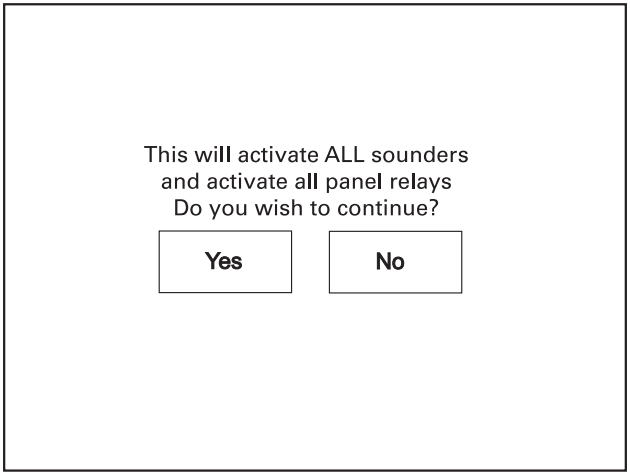
Evacuate (Access Level 2)

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the passcode.

Enter the Supervisor Mode Passcode and select "Evacuate" on the menu at the top of the screen.



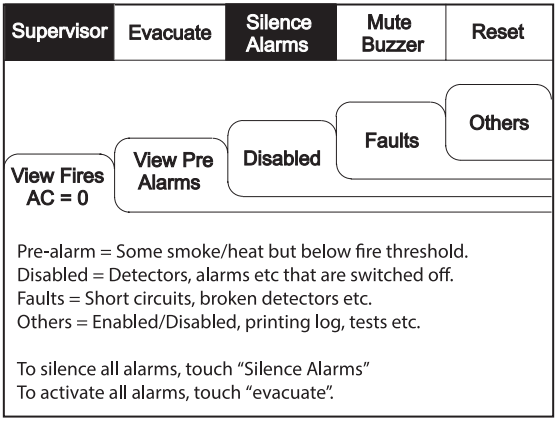
Select "Yes" to evacuate the building.



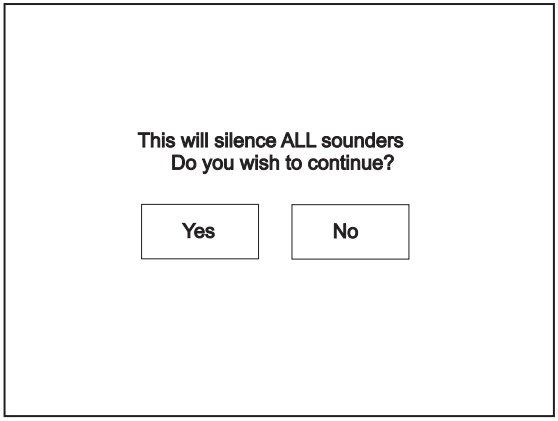
Silence Alarms

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the passcode.

Enter the Supervisor Mode Passcode and select "Silence Alarms" button as the top of the screen.



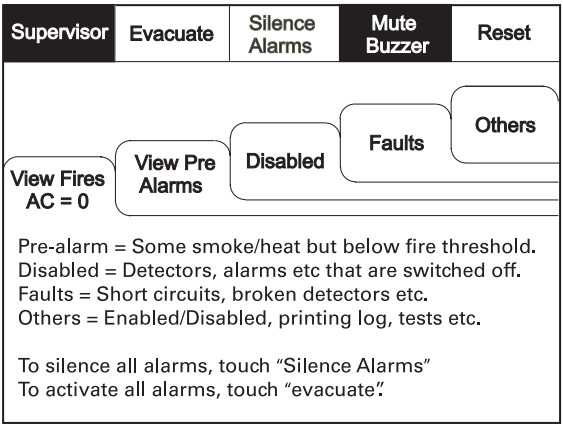
Select "yes" to silence Alarm.



Mute Buzzer

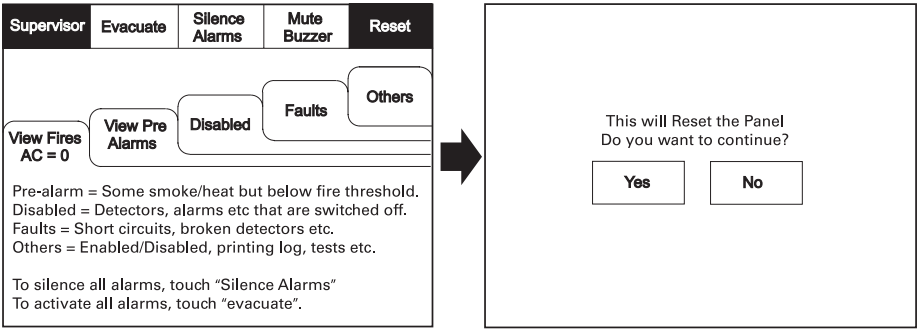
To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the passcode.

Enter the Supervisor Mode and Select "Mute Buzzer" from the Top Menu



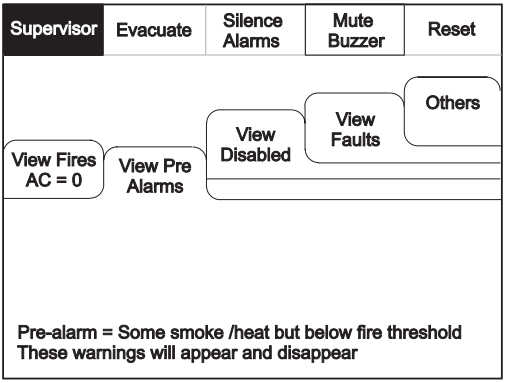
Reset

Enter the Supervisor Mode and Select "Reset" from the top Menu. Select "Yes" to reset the panel.



Pre-Alarms

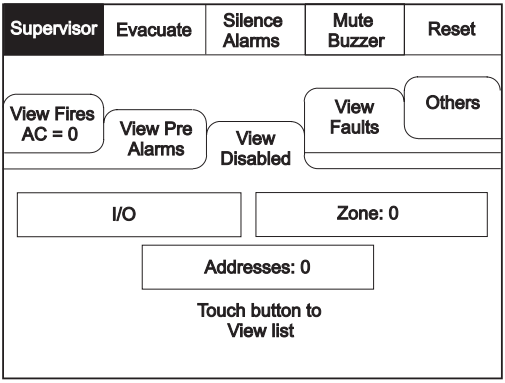
Enter the Supervisor Mode and Select "Pre-Alarms" tab.



A pre-alarm is shown when a detector appears to register heat or smoke but in a quantity that is insufficient to warrant an alarm. Pre-alarm may indicate a build up of dirt in a smoke detector which can be interpreted by the detector as smoke presence.

Disabled Devices

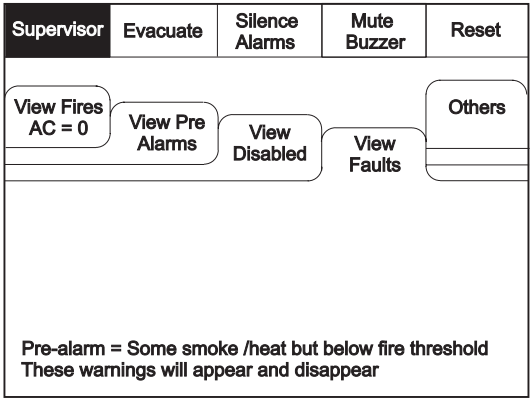
Enter the Supervisor mode and Select the "Disabled" tab.



The individual buttons show which devices and the number of devices which have been disabled. Press one of the buttons to display detailed information for a particular category

Faults

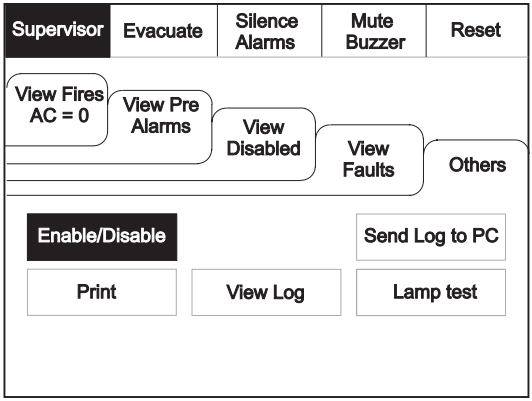
Enter Supervisor Mode Passcode and select “Faults” tab.



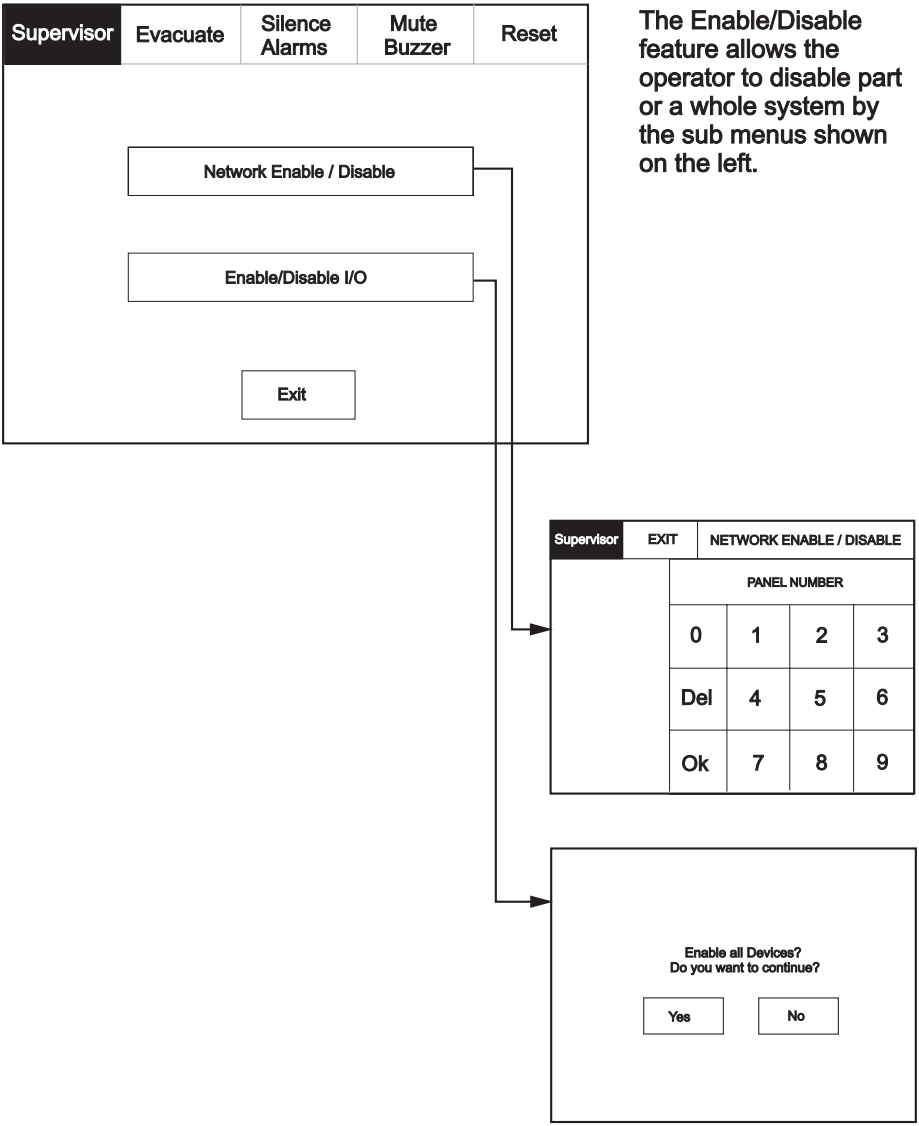
Enable/Disable (others Menu)

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the passcode.

Enter the Supervisor Mode passcode and select the “Others” tab.



Enable/Disable

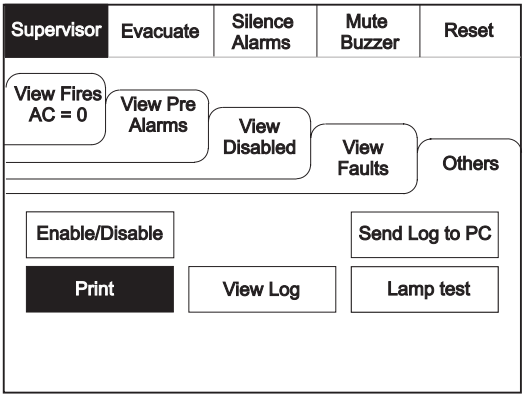


The Enable/Disable feature allows the operator to disable part or a whole system by the sub menus shown on the left.

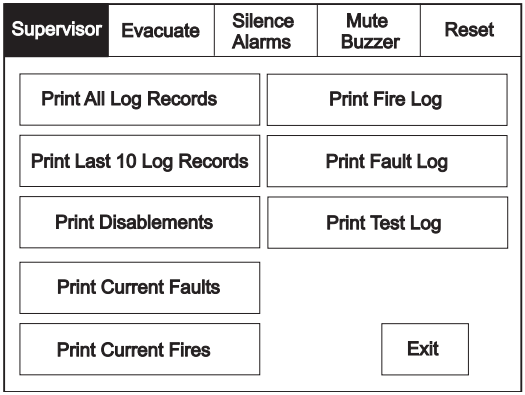
Print (function not availible)

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the passcode.

Enter the Supervisor Mode and Select the "Others" Tab. Press "Print"



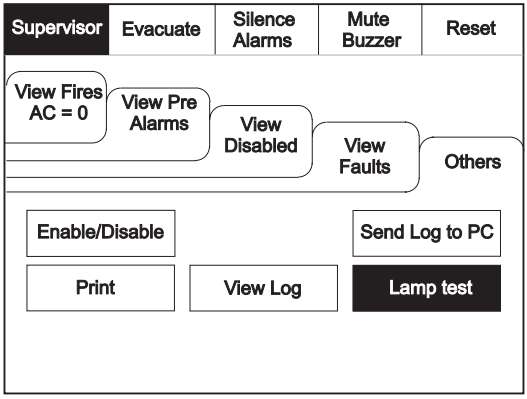
Select the Information You wish to Print from the Buttons Listed.

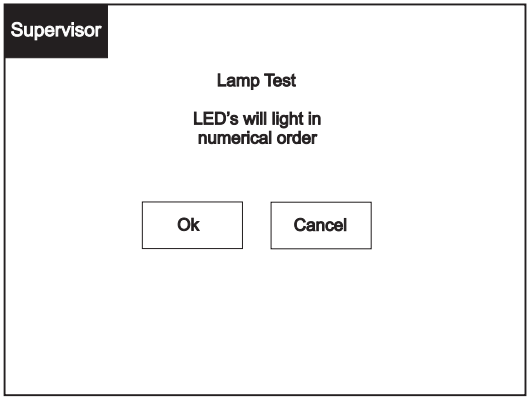


Lamp Test

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the passcode.

Enter the Supervisor Mode and Select the "Others" Tab. Press "Lamp Test"

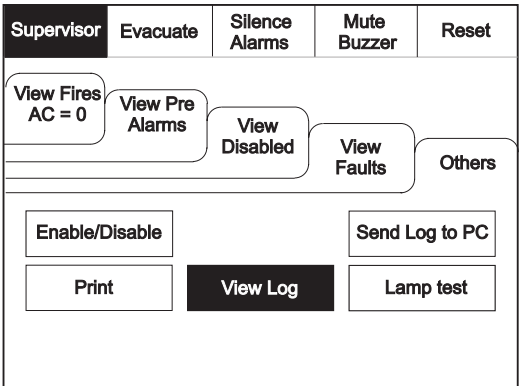




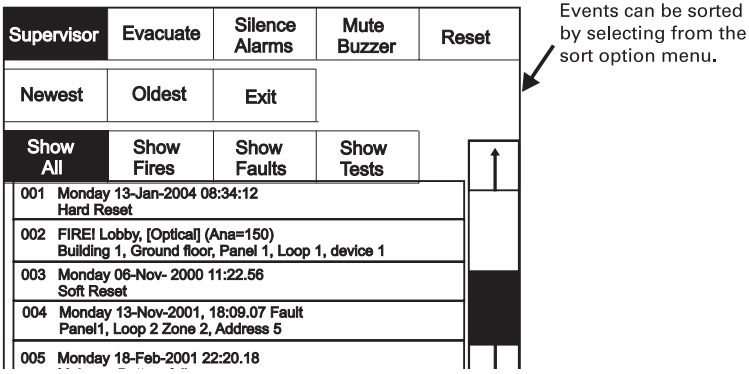
Viewing Events

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the passcode.

Enter the Supervisor Mode Passcode. Select the "Others" tab and press View Log.



Use the scroll bar to view the list of upto 1000 events.

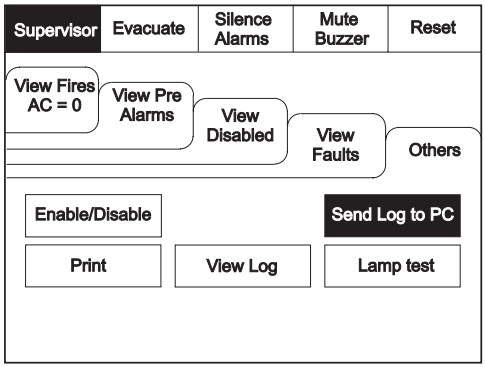


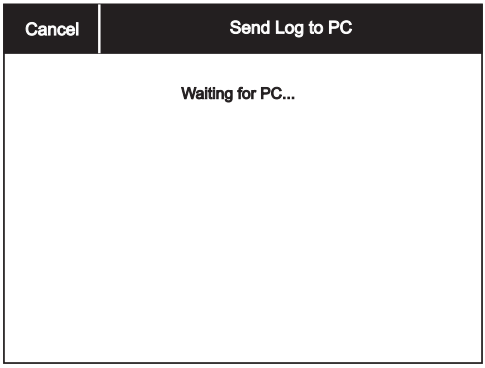
The Panel event log stores up to 1000 events including, fires, faults, resets and address changes. Once the maximum 1000 events has been reached Panel will automatically overwrite the oldest event every time a new event is stored.
The event log can only be reset by an approved service engineer.

Send Log to PC

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the passcode.

Enter the Supervisor Mode and Select the "Others" Tab. Press Send Log to PC.

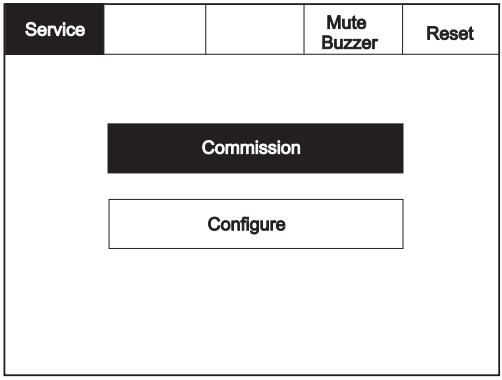


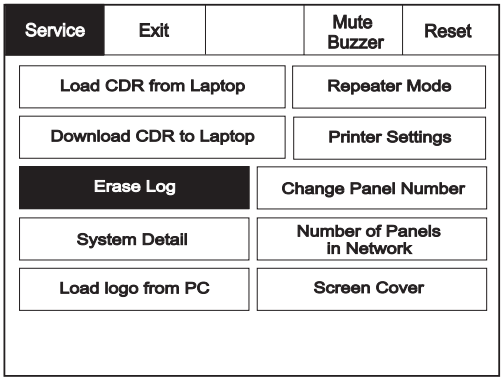


Erase Log

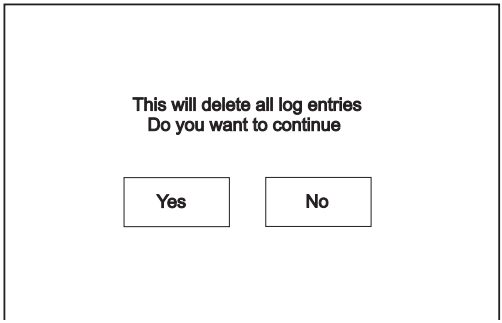
To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the service passcode.

Enter the Service Mode and Select Commission.





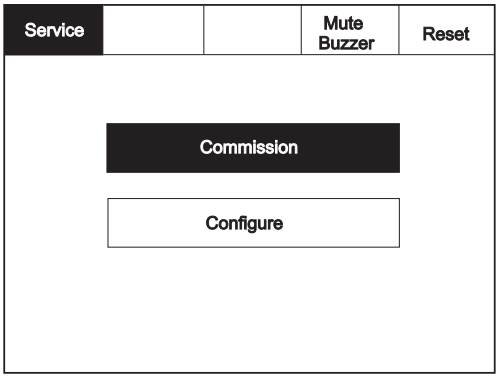
Select "Erase Log and Reset" from the Configure Menu Screen.

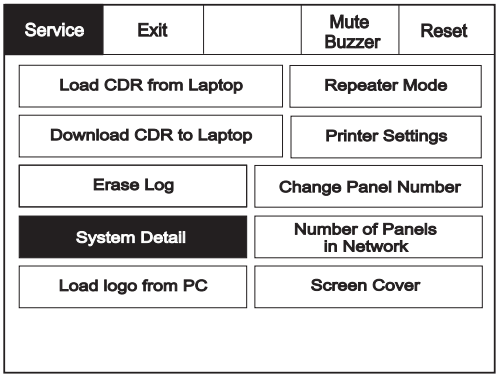


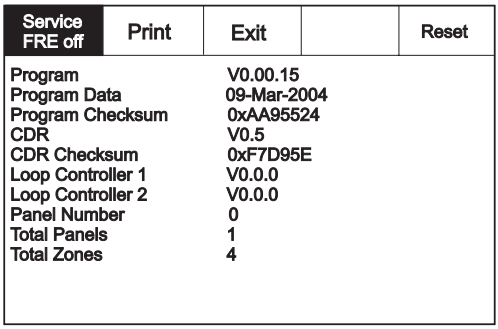
System Details

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the service passcode.

Enter the Service Mode and Select Commission, then Press "System Details".



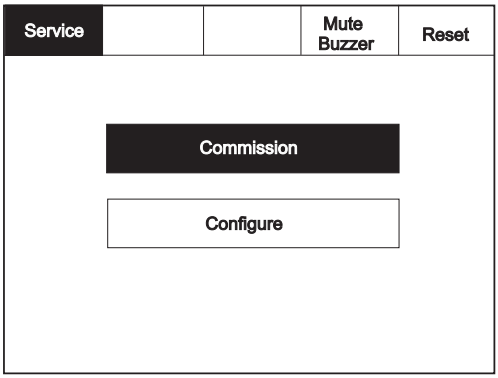


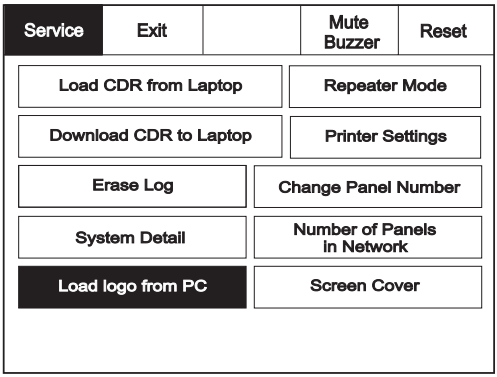


Load Logo from PC

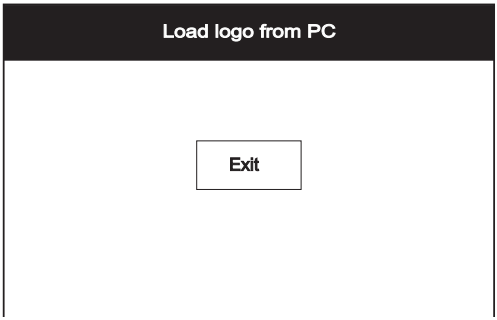
To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the service passcode.

Enter the Service Mode and Select Commission.





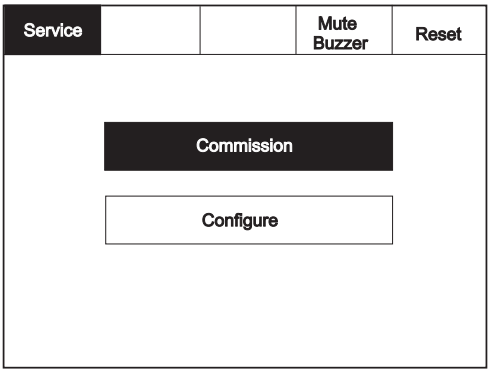
Select "Load logo from PC" from the Configure Menu Screen.

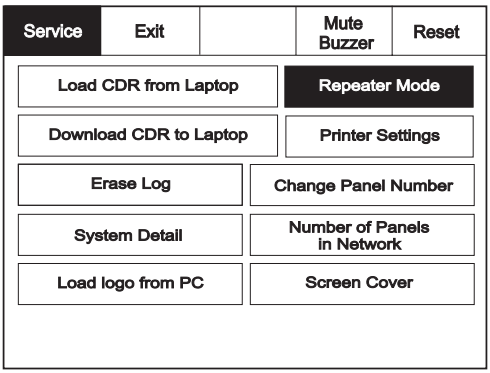


Repeater Mode

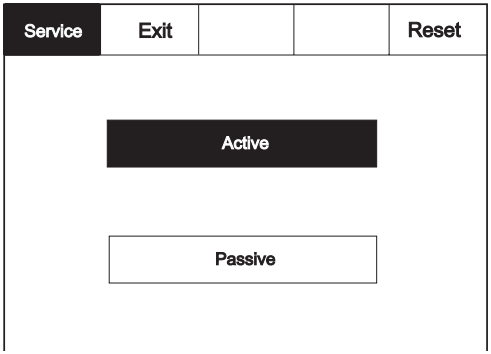
The Repeater can be set as active or passive. Unlike the active repeater, the passive repeater will only display information, no action from the repeater is transfered to the network.

Enter the Service Mode and Select Commission.





Press “Repeater Mode”

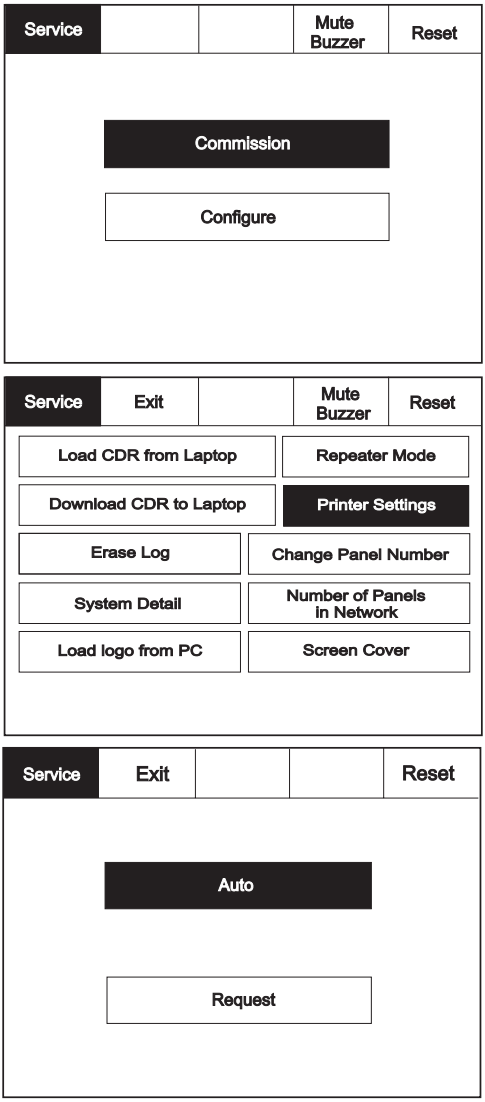


Select “Active” for an active repeater or “Passive” for a passive repeater

Printer Settings

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the service passcode.

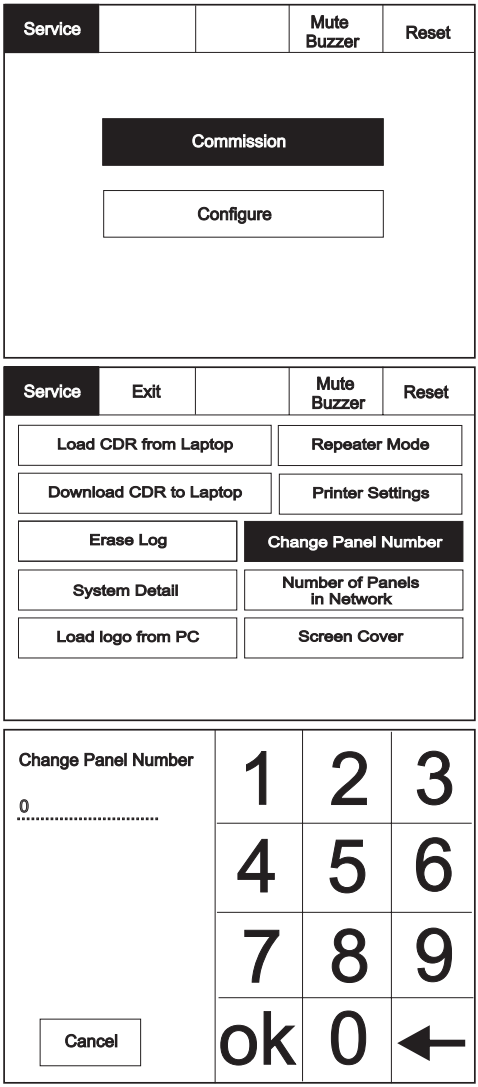
Enter the Service Mode and Select Commission then press "Printer settings".



Change Panel Number

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the service passcode.

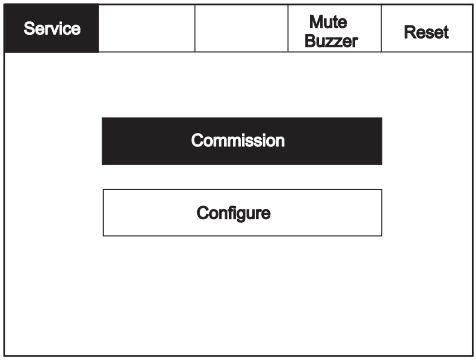
Enter the Service Mode and Select Commission then press "Change Panel Number"

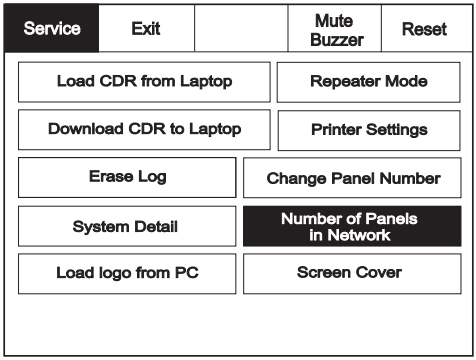


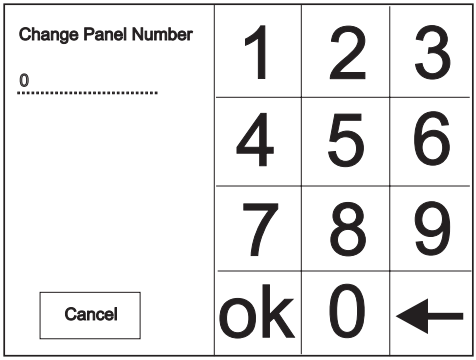
Number of Panels in Network

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the service passcode.

Enter the Service Mode and Select Commission then press "Number of Panels in Network"

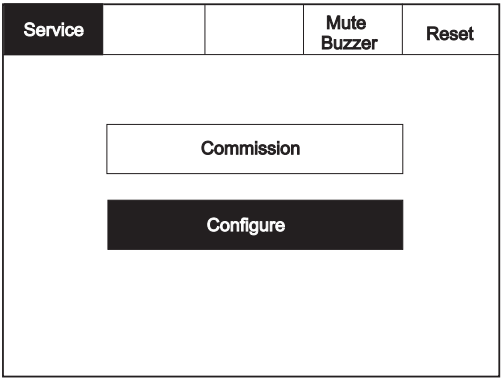


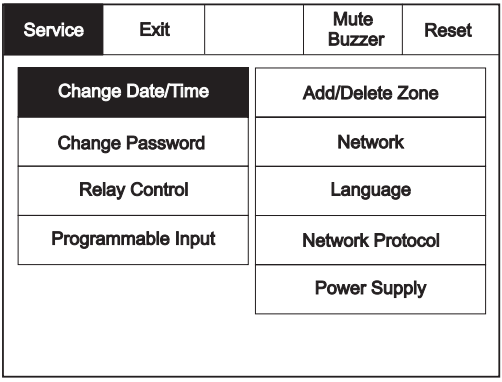




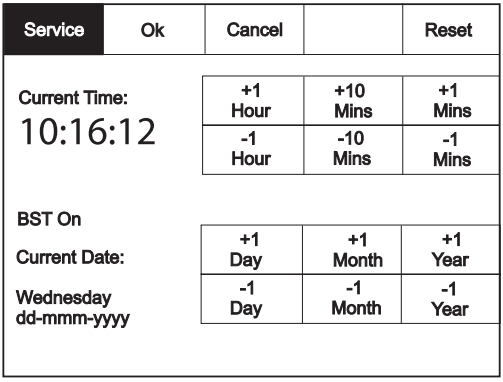
Change Date/Time

Enter the Service Mode and Select Configure. Select Change Date/Time.



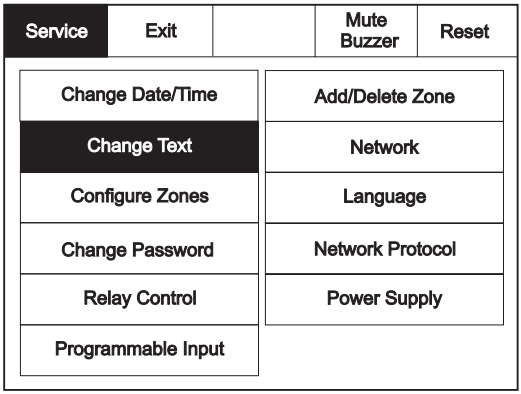


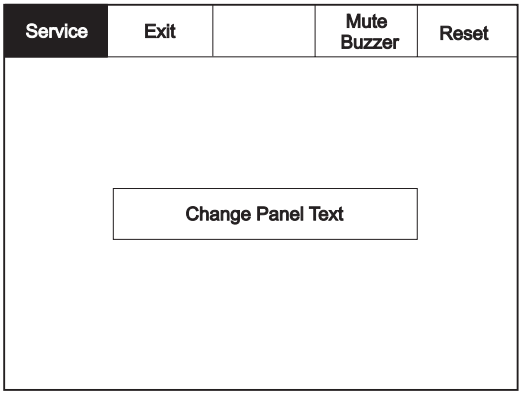
Set the Time Using the Buttons Shown Below.



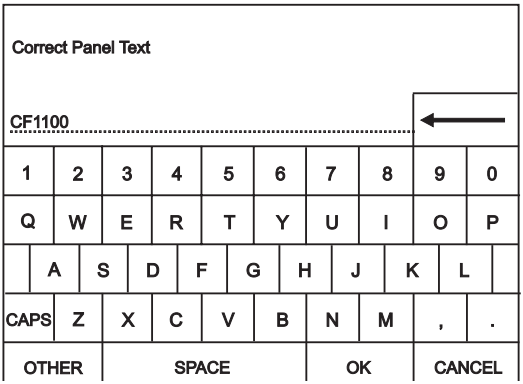
Change Panel Text

Enter the Service Mode and Select Configure. Select "Change Text"



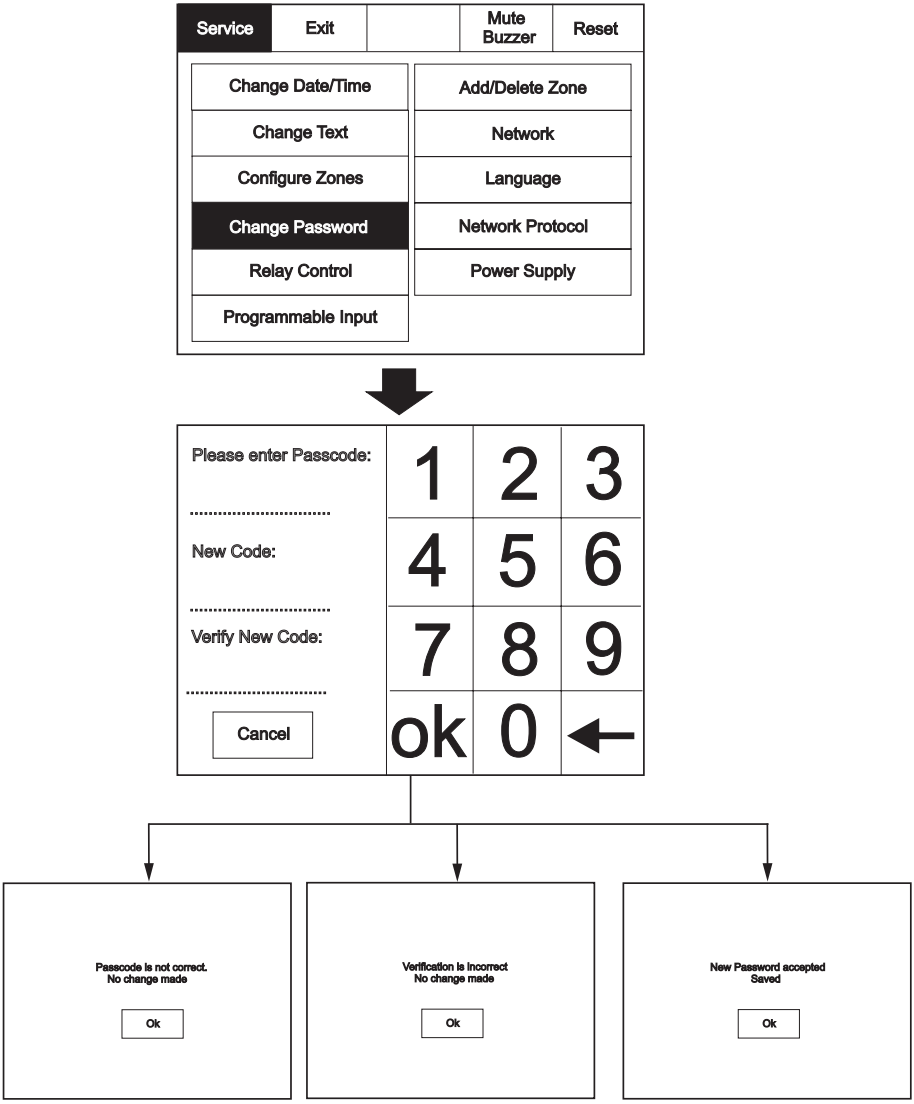


Press "Change Panel Text"



Change Passcode

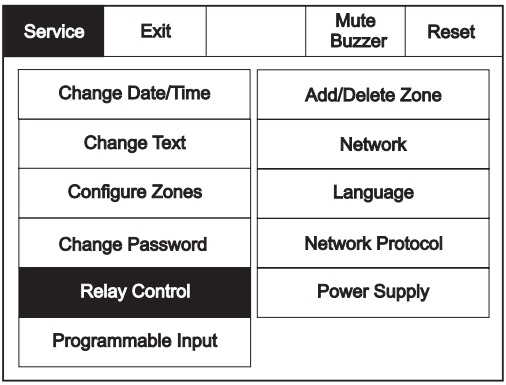
Enter the Service Mode and Select Configure. Select "Change User Code"



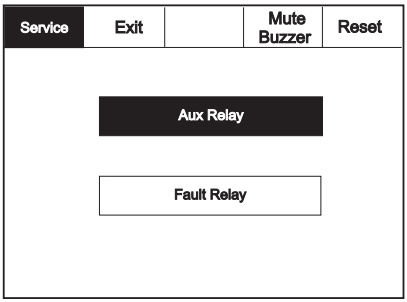
Relay Control

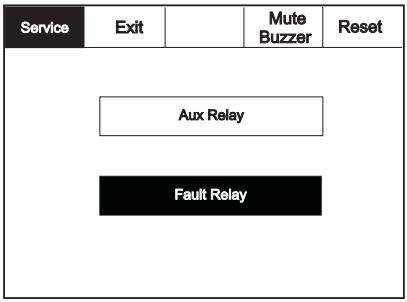
The repeater is equipped with 2 programable relays configured as volt free contact.

Enter the Service Mode and Select Configure. Select "Relay Control"

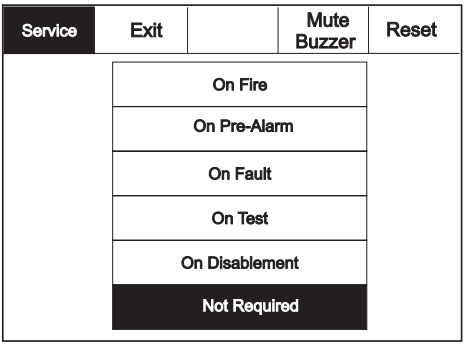


Select the type of relay either "Aux Relay" or "Fault Relay"





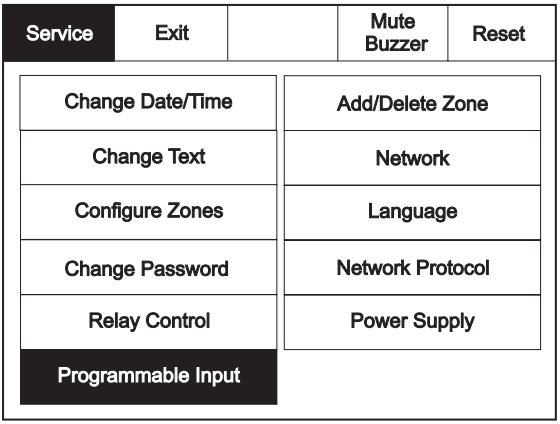
Select the desired mode



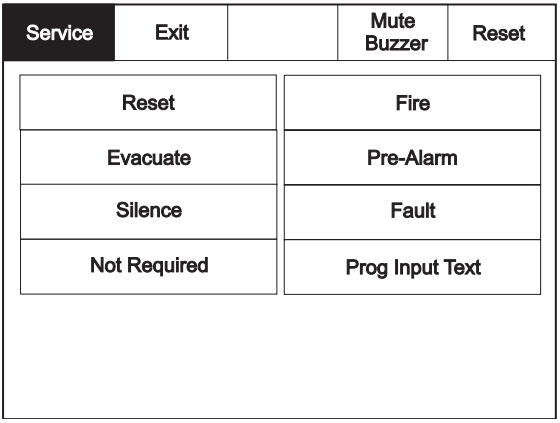
Programmable Input

The Repeater is equipped with a programable input which can operate across the network if the repeater is programmed as active.

Enter the Service Mode and Select Configure. Select "Programmable Input"



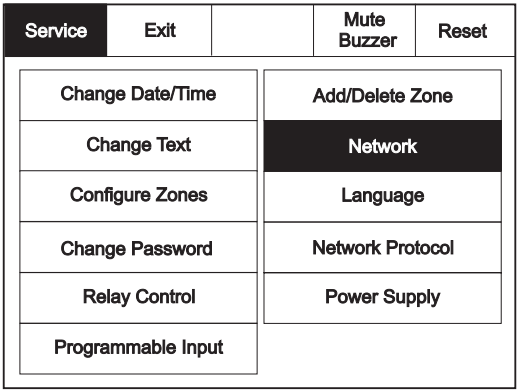
Select Zone into which device will be added



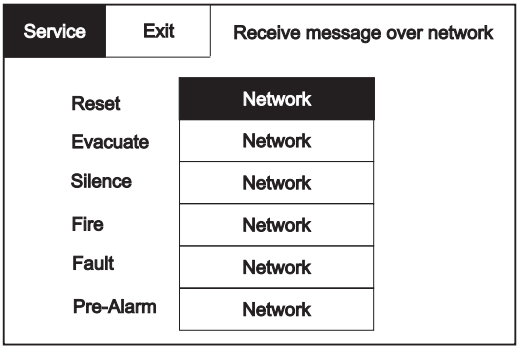
Select the mode of operation from the menu

Network

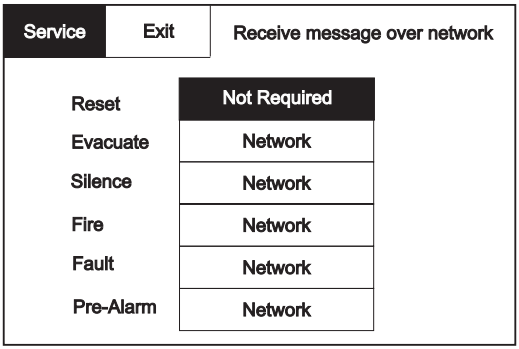
Enter the Service Mode and Select Configure. Select "Network", This menu defines whether messages are broadcast across the network or remain local.



Select the specific required . E.g "Reset"



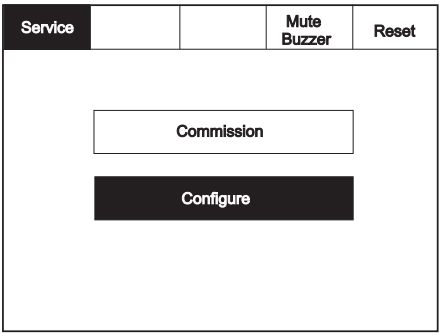
Select if Network is required to be on/off

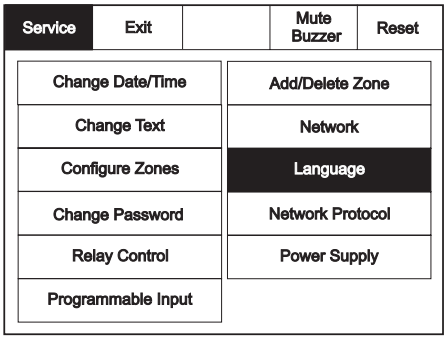


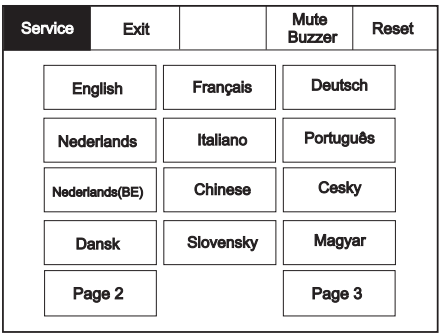
Language

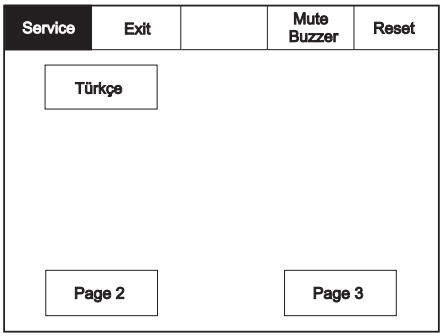
To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the service passcode.

Enter the Service Mode and Select Configure.









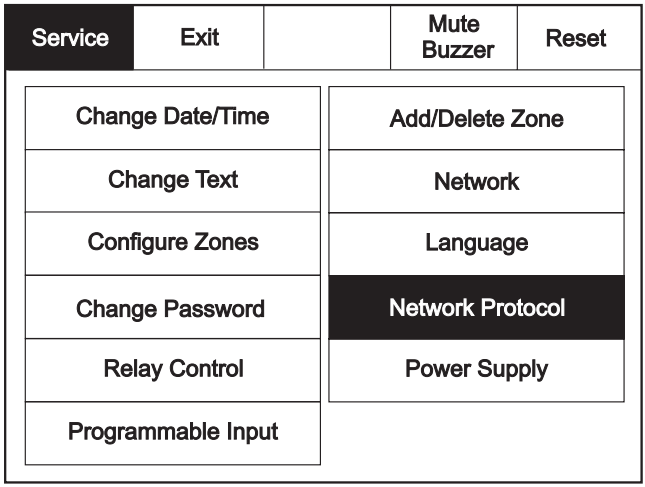
Select "Language" from the Configure Menu Screen.

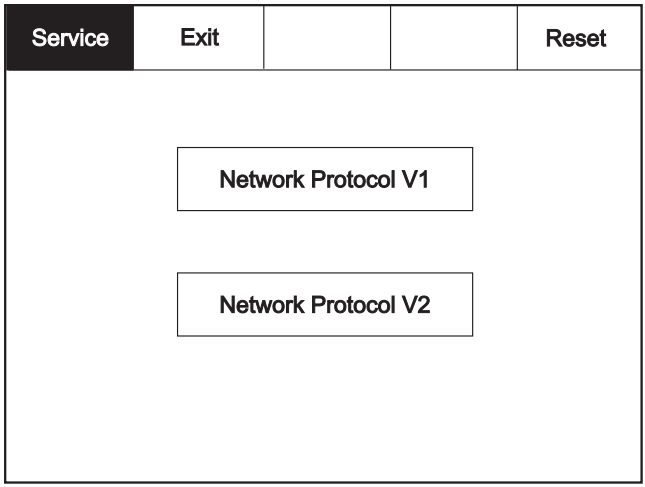
Then press select required language from the 3 available pages.

Network Protocol

To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the service passcode.

Enter the Service Mode and Select Configure.

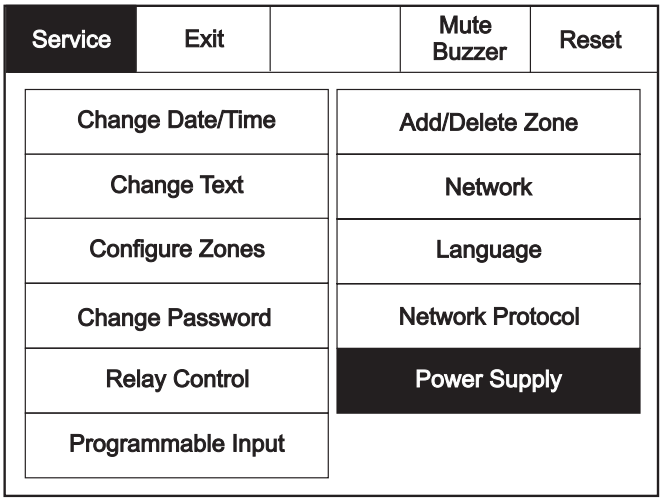


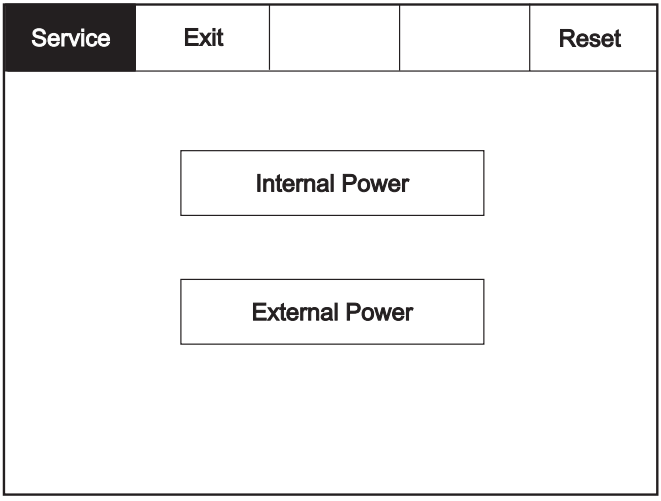


Power Supply

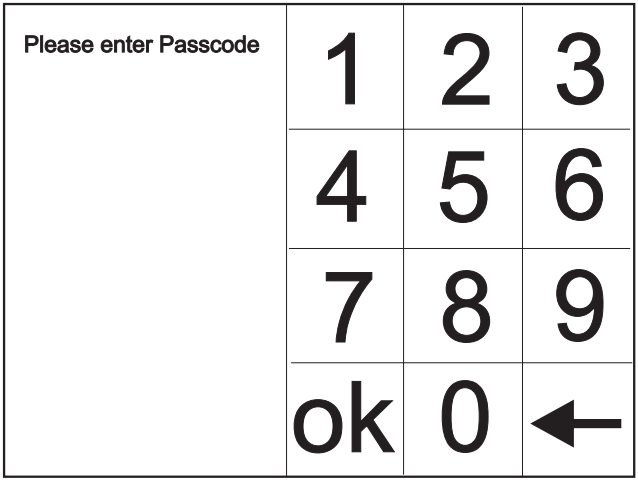
To activate the touch screen, touch the top left corner of the screen until the screen illuminates. To enter the supervisor mode touch the supervisor button and enter the service passcode.

Enter the Service Mode and Select Configure.





Password Protection



The system has password protection which restricts access to the DISABLE Menu and to TEST/COMMISSIONING MODE. The password is a four digit code and the default number is 2214. The password entry screen is accessed via the supervisor mode button. Press supervisor mode and the password entry screen will be displayed, type in the passcode and press Ok. If the wrong password is entered three times further access to the system is denied.

Notes

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