

OPERATION MANUAL

| Addr    | Name            | Test        | Status |
|---------|-----------------|-------------|--------|
| 9 (G4)  | 2nd floor, L1   | FT, 21.3.06 | OK     |
| 10 (G5) | 2nd floor, L2   | FT, 21.3.06 | OK     |
| 11 (G6) | 2nd floor, L3   | FT, 21.3.06 | OK     |
| 12 (G1) | 3rd floor, left | FT, 21.3.06 | OK     |
| 13 (G2) | 3rd floor right | FT, 21.3.06 | OK     |
| 14 (G3) | garage L1       | FT, 21.3.06 | OK     |
| 15 (G5) | garage L2       | FT, 21.3.06 | B&T    |
| 16 (G6) | garage L3       | FT, 21.3.06 | OK     |

Navigation icons: info, clipboard, settings.

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# 1 About these operating instructions



These operating instructions contain important information in order to operate the emergency lighting system safely, properly and economically.

The operating instructions are intended for the owner of the system and the operating personnel.

Only few things are different between e-touchBOX and e-touchPANEL. It is indicated in the operating instructions if a function is only available for e-touchPANEL.

Mounting instructions for e-touchBOX and e-touchPANEL supplement the operating instructions.

The following symbols are used in these operating instructions:

| Symbol  | Meaning   |
|---|---|
|  | Notes contain important information for operating the units.                                    |
| -   | Prerequisites that must be checked prior to a certain action are marked with a hyphen.          |
|  | This symbol is used for instructions that consist of a single action.                           |
| 1.  | In the case of instructions consisting of several actions, the individual actions are numbered. |
| <b>Buttons</b>  | Buttons and software terms are displayed bold.  |

## 2 Safety

**Designated use** e-touchBOX/PANEL may only be used for controlling the emergency lighting of single battery powered emergency lighting systems. e-touchBOX can control a maximum of 60 and e-touchPANEL can control a maximum of 120 emergency units.

Only the following emergency lighting modules may be connected:

- EM PRO
- PC CFL COMBO-CONNECT with EM CONNECT PRO
- EM powerLED PRO

**Safety instructions** The following safety instructions must be observed when operating the e-touchBOX/PANEL:

- The owner must ensure that the country-specific regulations and standards for emergency lighting systems are observed.
- The owner must ensure that the wiring instructions and specifications for DALI lines are observed.
- e-touchBOX/PANEL may only be operated by a trained person who has been authorized by the owner and who has the professional training and knowledge, especially of the relevant regulations, to be able to assess the tasks he or she has been assigned as well as possible dangers.
- The owner of the emergency lighting system must ensure that no one but authorized trained persons modify any settings of the e-touchBOX/PANEL.
- Every operator of the e-touchBOX/PANEL must read these operating instructions carefully and comply with the instructions contained therein.

### **NOTICE**

**The device might become damaged if the touchscreen is calibrated with the remote control via Ethernet connection.**

- Only calibrate the device using the touchpanel of the e-touchPANEL and not via the web browser.

## 3 Design and function

Up to 60 emergency units can be installed, controlled and monitored with the e-touchBOX , and up to 120 with the e-touchPANEL . In addition, the emergency lighting tests prescribed in the relevant standards can be performed automatically. The test results are recorded in a log file for verification.

e-touchBOX/PANEL with color touchscreen provides the following functions for operating the emergency units:

- Addressing and grouping
- Identification
- Manual tests
- Time-controlled function and duration tests
- User-friendly software

A frame light is integrated in e-touchPANEL . It supports the status line of the system.




**Infrared interface** e-touchBOX/PANEL is equipped with an infrared interface. The infrared interface enables exchanging files between e-touchBOX/PANEL and devices with an infrared interface (e.g. notebook, cell phone). In this way, emergency lighting tests can be archived and updates can be performed.


**Ethernet interface** e-touchPANEL also has an Ethernet interface. In addition to exchanging data over the Ethernet interface, the interface enables controlling an e-touchPANEL via a browser. Configuration and monitoring can thus be performed by one PC for several panels.

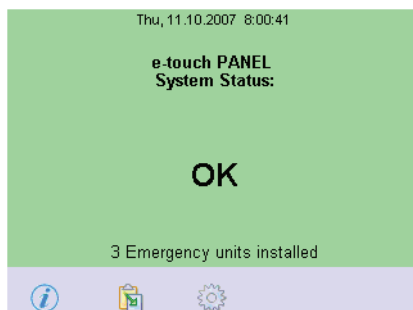
**Menu** The menu of the e-touchBOX/PANEL consists of three main pages:

- System status
- Test protocol
- Main menu

These pages are opened by clicking on the following symbols:


| Symbol  | Page          |
|---|---------------|
|  | System status |
|  | Test protocol |
|  | Main menu     |

-  **System status** **OK** is displayed on the **System Status** page if there are no errors in the system. The number of installed emergency units is also indicated.




**Error** is displayed on the **System Status** page if there is an error in the system. The number of errors is also indicated.

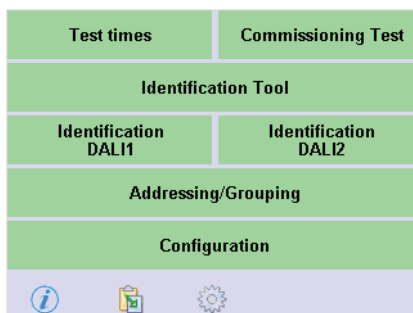


-  **Test protocol** On the **Test Protocol** page, the function and duration tests including their dates and results are recorded for every emergency unit.

The screenshot shows the 'Test Protocol' page with a table of test results. The table has four columns: 'Addr', 'Name', 'Test', and 'Status'. The status column uses color coding: red for 'FAIL', blue for 'OK', and green for 'OK'. The table is titled 'Test Protocol' and includes a red error icon and an IrDA icon. A navigation bar at the bottom contains three icons: an information icon, a clipboard icon, and a gear icon.

| Addr    | Name | Test           | Status |
|---------|------|----------------|--------|
| A3 (G4) | -    | FT, 02.10.2007 | FAIL   |
| A2 (G3) | -    | FT, 02.10.2007 | FAIL   |
| A4 (G5) | -    | FT, 02.10.2007 | OK     |
| A5 (G6) | -    | FT, 05.10.2007 | OK     |
| A4 (G5) | -    | FT, 05.10.2007 | OK     |
| A3 (G4) | -    | FT, 05.10.2007 | OK     |
| A2 (G3) | -    | FT, 05.10.2007 | OK     |
| A1 (G2) | -    | FT, 05.10.2007 | OK     |

-  **Main Menu** In the **Main Menu**, the basic system settings can be adapted to the requirements, the emergency units can be assigned and the tests configured.



The following functions can be called using the buttons of the **Main Menu**:

| <b>Button</b>                | <b>Function</b>  |
|------------------------------|--|
| <b>Test times</b>            | Used to specify a time schedule for the function and duration test.                                |
| <b>Commissioning test</b>    | Used to start the function and duration test manually.   |
| <b>Identification tool</b>   | Used to convert the identification flashing into the emergency unit address.                       |
| <b>Identification DALI 1</b> | Used to start and stop the identification flashing of the LEDs of the DALI line 1 emergency units. |
| <b>Identification DALI 2</b> | Used to start and stop the identification flashing of the LEDs of the DALI line 2 emergency units. |
| <b>Addressing/grouping</b>   | Used to assign an address to the emergency units and divide them into groups.                      |
| <b>Configuration</b>         | Used to change the basic system settings.  |

## 4 Operation

e-touchBOX/PANEL is configured and operated using the integrated touchpanel.



e-touchPANEL also has an Ethernet interface that enables configuration and operation of the unit via a connected PC "Ethernet interface", page 22.

### 4.1 Configuring the basic settings

Prior to commissioning the e-touchBOX/PANEL, the basic settings must be configured.

#### 4.1.1 Opening the Configuration menu



1. Click on the **Main Menu** symbol.
2. Click on the **Configuration** button.

= The **Display** tab appears.



3. If you want to open another tab click on the name of the tab or on the green arrows.

#### 4.1.2 Selecting the language

– The **Configuration** menu is open.

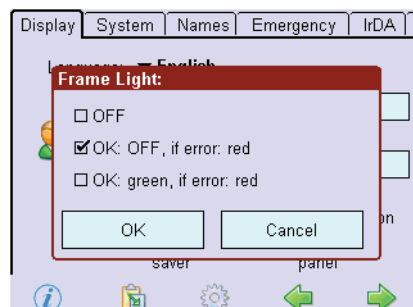
1. Click on the **Language** dropdown menu.
  2. Select the desired language.
- = The software interface is displayed in the selected language.

#### 4.1.3 Adjusting the frame light

e-touchPANEL has an additional frame light that supports the system's status line.

| Option field                            | Function   |
|---|--|
| Off                                     | Frame light is switched off.   |
| OK: Off, in the case of an error: red   | Frame light lights up red if the <b>Error</b> status is indicated.                                       |
| OK: green, in the case of an error: red | Frame light lights up green if the status is <b>OK</b> and lights up red if the status is <b>Error</b> . |

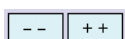
- The **Configuration** menu is open.
- 1. Click on the **Frame light** button in the **Display** tab.  
= The dialog box **Frame light function:** is displayed.



- 2. Activate the desired option field and confirm with **OK**.

#### 4.1.4 Changing display settings

- The **Configuration** menu is open.



- To modify the contrast, click on the - - or + + buttons.
- ☑ ➤ To activate a confirmation sound that is generated whenever a button is clicked, activate the **Beep on touch** check box.
- ☑ ➤ To switch on the screen saver, activate the **Screen saver** check box.  
= When the screen saver is activated, the TridonicAtco logo is displayed two minutes after the touchscreen has been touched last. If there is an error in the system, no screen saver appears.

#### 4.1.5 Protecting the e-touchBOX/PANEL with a password

The **Configuration** menu or the entire e-touchBOX/PANEL can be locked in order to protect them from unauthorized access.

- The **Configuration** menu is open.
- 1. Click on the **Display** tab.
- 2. To lock the **Configuration** menu, activate the **Lock Configuration** check box.  
Once you exit the **Configuration** menu, the password ›1234‹ must be entered again to re-open the menu.
- 3. To lock the entire operation, activate the **Lock panel** and **Screen saver** check boxes.  
If the screen saver is active, the password ›5678‹ must be entered to close it.



If the screen saver is not active, e-touchBOX/PANEL is not locked.  
The passwords and image of the screen saver cannot be changed.

#### 4.1.6 Setting the date and time

- The **Configuration** menu is open.
- 1. Click on the **System** tab.
- 2. Click on the **System time** button.
- 3. Set the time and date with the arrow keys and confirm with **OK**.



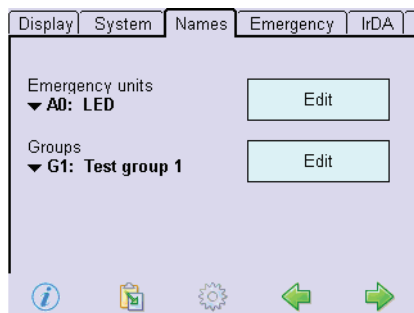
In the case of a power failure, the e-touchBOX/PANEL is supplied by a back-up battery for up to 3 days. If no voltage is supplied to the e-touchBOX/PANEL for a longer period of time, a dialog box tells you that the time and date must be entered again after restarting.

### 4.1.7 Entering the unit/group name

The unit and group name is indicated in the test protocol.

– The **Configuration** menu is open.

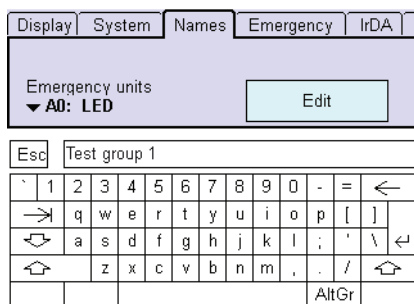
1. Click on the **Names** tab.



2. Click on the **Emergency units** dropdown menu and select the emergency unit.

3. Click on the **Edit** button to enter a name for the emergency unit.

= A keyboard is displayed.



4. Enter a unit name and confirm with the Enter key.

5. Repeat steps 2 to 4 for other **Emergency units** or **Groups**.



If an Ethernet connection is established (only e-touchPANEL), you can enter the names using the keyboard of the PC or laptop "Ethernet interface", page 22.

### 4.1.8 Programming the prolong time

If necessary, emergency lighting operation can be prolonged by a maximum of one hour once the power has been restored, e.g. to bridge the restarting time of high-pressure lamps in the case of short mains voltage interruptions.

The basic setting of the emergency units is 2 minutes.



The prolong time can only be maintained if there is sufficient battery capacity.

– The **Configuration** menu is open.

1. Click on the **Emergency** tab.

2. Click on the **Prolong time** dropdown menu and select the desired time.

3. Click on the **Program prolong time** button.

## 4.2 Addressing and grouping emergency units

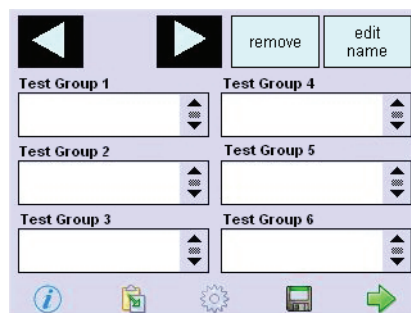
Every emergency unit must be assigned an individual address in order for e-touchBOX/PANEL to be able to communicate with the emergency units. Two addressing methods are differentiated:

- **System extension** If new emergency units have been added to an existing system, an address is assigned to these units. The addresses of the existing DALI devices remain unchanged.
- **Reinitialization:** A new address is assigned to all DALI devices in the system.

During the addressing process, the emergency units are automatically divided into six groups. For each group, a specific time for testing can be set. This prevents the emergency units from being tested simultaneously.



1. Click on the **Main Menu** symbol.
2. Click on the **Addressing/Grouping** button.
3. Select the addressing method **System extension** or **Reinitialization**.
4. Click on the **Next >** button.  
= The number of connected emergency units is displayed.
5. When the message **Search completed** is displayed, click on the **Finish** button.  
= The **Grouping** window is displayed. Each emergency unit is displayed as part of a group.



6. Click on the **Save** symbol in order to save the grouping in the emergency units.

### 4.2.1 Changing the grouping

Based on an algorithm, the emergency units are assigned to six groups. Normally, the grouping does not have to be changed. In special cases, such as e.g. the simultaneous testing of all emergency units of a room, the grouping can be changed:



The grouping of emergency units can only be changed after having performed the addressing method. In order for the existing addresses to be maintained, select the addressing method **System extension**.



1. Click on the **Main Menu** button.
2. Click on the **Addressing/Grouping** button.
3. Select the addressing method **System extension**.  
= The addresses of existing DALI devices remain unchanged.
4. Click on the **Next >** button.
5. When the message **Search completed** is displayed, click on the **Finish** button.  
= The **Grouping** window is displayed. Each emergency unit is displayed as part of a group.
6. Mark the emergency unit for which you want to change the grouping in the **Test group** field.  
- or -  
Select the address of the emergency unit using the arrow keys.
7. Click on the **Remove** button.
8. Drag the address of the emergency unit to the desired group (field **Test group**).  
= The emergency unit is displayed in the group.
9. Repeat steps 1 to 3 for other emergency units if necessary.



### 4.3 Configuring the error signaling

Two DALI addresses of DALI line 1 can be defined for fault signaling.

In this way, the error status can be transmitted to a higher-level system via relay modules DALI RM or DALI 3-RM-C or indicated by signal lamps.



Error signals can only be received on DALI line 1.

DALI is based on random addressing. This means that the interface devices can be assigned any of 64 possible addresses. DALI RM, e.g., can be assigned address A4. As before, 60 emergency units can be connected. Addresses higher than A60 are also possible for emergency units.

#### Specifying DALI addresses for error signaling

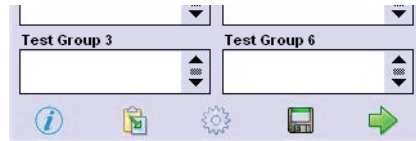


Only addresses that are not assigned an emergency unit can be used for error signaling.

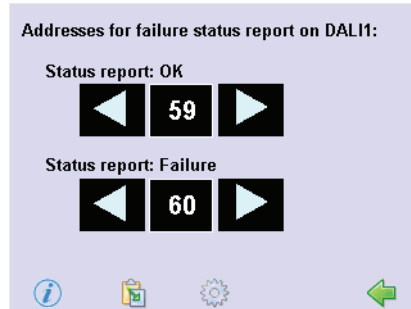


1. Click on the **Main Menu** button.
2. Click on the **Addressing/grouping** button.
3. Select the addressing method **System extension** or **Reinitialization**.  
= With **System extension** the addresses of existing DALI devices remain unchanged.  
With **Reinitialization** a new address is assigned to all DALI devices in the system.
4. Click on the **Continue >** button.

- When the message **Search completed** is displayed, click on the **Complete** button.  
= The **Grouping** window is displayed. Each emergency unit is displayed as part of a group.



- Press the green arrow key at the bottom right.  
= The dialog box to select the two addresses for error signaling is displayed. Only addresses are displayed that are not assigned an emergency unit.

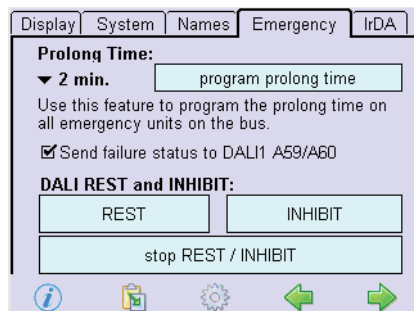


- Select the two addresses **Status report: OK** and **Status report: Failure** with the arrow keys.
- Press the green arrow key at the bottom right and select the **Save** symbol.  
= The two addresses for error signaling are stored.

### Activating the error signaling



- Click on the **Main Menu** symbol.
- Click on the **Configuration** button.
- Select the **Emergency** tab.



- Activate **Send failure status to DALI1**.  
= Error signaling is activated.  
The following messages are displayed at the error signaling addresses:

| Status report | Meaning   |
|---------------|---|
| OK            | No error is present on both DALI lines.             |
| Error         | An error is present (on one of the two DALI lines). |

## 4.4 Identifying emergency units

In order to indicate the defective emergency unit if a malfunction has occurred, the emergency units can be identified individually.

For identification, the LEDs of the emergency units flash green and red. After having flashed six times, there is always a pause. The six flashes represent the address of the emergency unit as a binary code that can be converted into a decimal number with the identification tool in the e-touchBOX/PANEL. Address, group name and unit name "Entering the unit/group name", page 8 are output in the test protocol.

To address emergency units in several rooms, TridonicAtco recommends using the addressing device (Article number 89899836 EM PRO). With the addressing device the binary LED identification signal is converted into a DALI address.

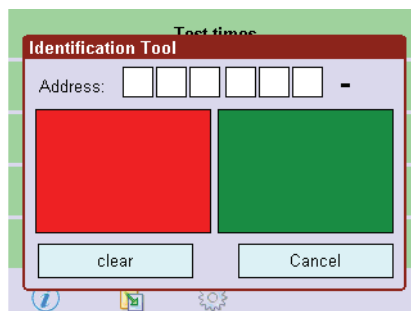


A software that can be installed on a JAVA-capable cell phone is another possibility. ([www.tridonicatco.com](http://www.tridonicatco.com) -> Service -> Download -> Software: »EMpro Ident. TOOL V1.0«). The software also converts the binary LED identification signal into a DALI address.

Using the integrated identification tool of the e-touchBOX/PANEL you can determine the address of an emergency unit as described below:



1. Click on the **Main Menu** symbol.
2. Click on the **Identification** button.  
= The LEDs of the emergency units flash green and red.
3. Click on the **Identification tool** button.  
= The dialog box **Identification tool** is displayed.



4. Wait for a flashing pause of the LED (approx. 3 seconds).
5. According to the color of the LED, click on the right or green field in the identification tool after every flashing pause.  
= The binary code is indicated and converted into the address of the emergency unit after the sixth flashing.

6. Write down the address and the name of the emergency unit in the installation documents.
7. Click on the **Clear** button.
8. Repeat steps 4 to 7 for other emergency units.
9. After all emergency units have been identified, click on the **Cancel** button.
10. Click on the **Identification** button to switch off the flashing of the LEDs.

## 4.5 Manually testing emergency units

After all emergency units have been installed, addressed and identified, the function and duration time of the units must be tested.

During the test, the emergency units to be tested are switched on. A status line in the e-touchBOX/PANEL indicates the type of test (FT ›function test‹, DT ›duration test‹) and the respective groups. The status line is located at the bottom right of the touchpanel while the test is running.

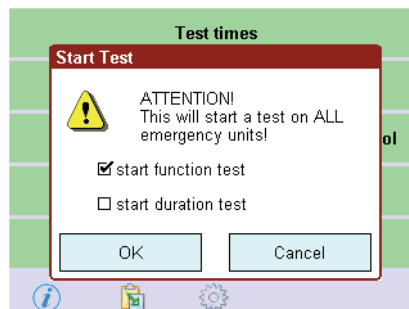


Depending on the emergency unit, the duration test can take up to three hours.

- The batteries have been charged for at least 24 hours.



1. Click on the **Main Menu** symbol.
2. Click on the **Commissioning test** button.  
The dialog box **Start test** is displayed.



3. Select the **Start function test** or **Start duration test** option field and confirm with **OK**.  
= The selected test is performed and displayed in the status line.

FT  
G1,2,4







4. After the test has been completed, click on the **Test protocol** symbol.  
= The Test protocol window is displayed.

| Addr    | Name | Test           | Status |
|---------|------|----------------|--------|
| A3 (G4) | -    | FT, 02.10.2007 | FAIL   |
| A2 (G3) | -    | FT, 02.10.2007 | FAIL   |
| A4 (G5) | -    | FT, 02.10.2007 | OK     |
| A5 (G6) | -    | FT, 05.10.2007 | OK     |
| A4 (G5) | -    | FT, 05.10.2007 | OK     |
| A3 (G4) | -    | FT, 05.10.2007 | OK     |
| A2 (G3) | -    | FT, 05.10.2007 | OK     |
| A1 (G2) | -    | FT, 05.10.2007 | OK     |



To abort the test, click on the status line of the test.

The following information is displayed in the test protocol:

| Name of column | Meaning   | Possible cause  |   |
|----------------|---|---|---|
| <b>Addr</b>    | Address and group of emergency unit   |   |   |
| <b>Name</b>    | Name of emergency unit  |   |   |
| <b>Test</b>    | Type of test and date of test<br>(FT = function test, DT = duration test)         |   |   |
| <b>Status</b>  | Result of test:   |   |   |
|                | <b>OK</b>   | Test successful   | -   |
|                |  | Lamp defective  | <ul style="list-style-type: none"> <li>■ Lamp error</li> <li>■ Lamp wrong</li> <li>■ Lamp wiring wrong</li> </ul>   |
|                |  | Battery fault   | <ul style="list-style-type: none"> <li>■ Battery capacity too low</li> <li>■ Battery defective</li> <li>■ Battery wiring wrong</li> </ul>                               |
|                |  | Error in the emergency unit   | <ul style="list-style-type: none"> <li>■ Emergency unit defective</li> </ul>  |
|                |  | Communication error between e-touchBOX/PANEL and emergency unit                   | <ul style="list-style-type: none"> <li>■ Emergency unit defective</li> <li>■ Emergency unit has been replaced but not addressed</li> <li>■ DALI wiring wrong</li> </ul> |
| <b>!T</b>      | Test has not been started   | <ul style="list-style-type: none"> <li>■ Batterie is not fully charged</li> </ul> |   |



➤ Click on the **Next error** symbol to jump to the next error entry.



➤ Click on the **IrDA** symbol to transmit one or all of the tests to a printer, laptop or PDA via infrared "Interfaces", page 19.



If a fault has been eliminated, this must be verified by performing a test on this emergency unit. If a battery was replaced, the test cannot be performed until 24 hours later because the battery needs to be fully charged for testing.

➤ In order to test a single emergency unit, click on the respective emergency lighting unit in the **Test** column.

## 4.6 Determining the starting time for automated testing

To automate a function or duration test for an emergency unit the starting time must be determined. Individual times can be set separately for each group. This ensures that in the case of a power failure a sufficient number of lamps are in working order.

The default settings for the testing times are:

- G1: Monday, 23:00h
- G2: Tuesday, 23:00h
- G3: Wednesday, 23:00h
- G4: Thursday, 23:00h
- G5: Friday, 23:00h
- G6: Saturday, 23:00h

In addition to the times, the intervals for the function and duration tests must also be specified:

| Test          | Interval       | Meaning   |
|---------------|----------------|---|
| Function test | manual         | The function test must be performed manually.   |
|               | weekly         | The function test is performed every week.  |
|               | every 2nd week | The function test is performed in the first and third week of the month.              |
|               | monthly        | The function test is performed in the first week of the month.                        |
| Duration test | manual         | The duration test must be performed manually.   |
|               | monthly        | The duration test is performed in the first week of the month.                        |
|               | quarterly      | The duration test is performed in the first week of January, April, July and October. |
|               | every 6 months | The duration test is performed in the first week of January and July.                 |
|               | yearly         | The duration test is performed in the first week of the year.                         |



The first week of a month is defined to last from the 1st to the 7th day of the month. The third week of a month is defined to last from the 15th to the 21st day of the month. On days when a duration test is performed, no function test is performed for this group.



1. Click on the **Main Menu** symbol.
2. Click on the **Testing times** button.  
= The **Automatic tests** window is displayed.

3. Specifying the intervals for the function and duration tests.
4. Click on the **Extended** button.  
= The dialog box **Extended settings** is displayed.

5. For each group, set the day of the week and the time of day. Click on the respective dropdown menu and select the day of the week or the time of day, and set the desired time using the arrows.

## 4.7 Deactivating emergency units

If the main power supply is switched off and you do not want the emergency units to switch on (e.g. in the case of a plant holiday), the emergency units can be deactivated in two ways:

- Manually switching off the emergency units
- Preventing the emergency units from switching on



### DANGER

#### Bridging a safety device

Deactivated emergency units do not switch on in an emergency.

- Ensure that there is no emergency.
- Ensure that emergency operation is not necessary.



### 4.7.1 Manually switching off the emergency units

- The main power supply is switched off and there is no emergency.
- The power supply of the e-touchBOX/PANEL is switched on.



1. Ensure that emergency operation is not necessary.
2. Click on the **Main Menu** symbol.
3. Click on the **Configuration** button.
4. Click on the **Emergency** tab.
5. Click on the **Rest** button.
  - = The emergency units are switched off.
  - When the main power supply is switched on again, the emergency units are reactivated.
6. To activate the emergency units before switching on the main power supply, click on the **Stop Rest/Inhibit** button.



Not all emergency units support the **Stop Rest/Inhibit** function.

### 4.7.2 Preventing the emergency units from switching on

- The main power supply is switched on.



1. Ensure that emergency operation is not necessary.
2. Click on the **Main Menu** symbol.
3. Click on the **Configuration** button.
4. Click on the **Emergency** tab.
5. Click on the **Inhibit** button.
  - = The LEDs of the emergency units emit a green double flash.
6. Switch off the main power supply within 15 minutes.
  - = The emergency units do not switch on.
  - When the main power supply is switched on again, the emergency units are reactivated.
7. In order to reactivate the emergency units without switching the main power supply on and off again, click on the **Stop Rest/Inhibit** button.



Not all emergency units support the **Stop Rest/Inhibit** function.

## 4.8 Cleaning the touchscreen

In order to clean the touchscreen without accidentally changing settings, the touchscreen can be temporarily deactivated.



1. Click on the **Main Menu** symbol.
2. Click on the **Configuration** button.
3. Click on the **Clean** button.  
= The touchscreen is deactivated for 20 seconds. The remaining time is indicated.
4. Clean the touchscreen with a soft, damp cloth.

## 5 Loading the software update

Updates are provided for downloading on the TridonicAtco homepage:

[www.tridonicatco.com](http://www.tridonicatco.com) -> Service -> Download -> Software

To load a software update to e-touchBOX/PANEL you must perform the following steps:

- Determine the current program version "Determining the program version", page 20.
- Check if a higher version is available and download it.
- Set up the infrared connection "Setting up the infrared connection", page 20
  - or -
  - Set up the Ethernet connection (only e-touchPANEL) "Setting IP address in e-touchPANEL", page 24.
- Install the application software update using an infrared connection "Installing the update of the application software", page 21
  - or (only e-touchPANEL) -
  - Install the application software update using an Ethernet connection "Downloading/uploading file", page 28.

## 6 Interfaces

e-touchBOX and e-touchPANEL have an infrared interface which enables the transmission of:

- Test protocols (e.g. for archiving)
- Updates of the application software for e-touchBOX/PANEL
- Configuration files (download/upload)

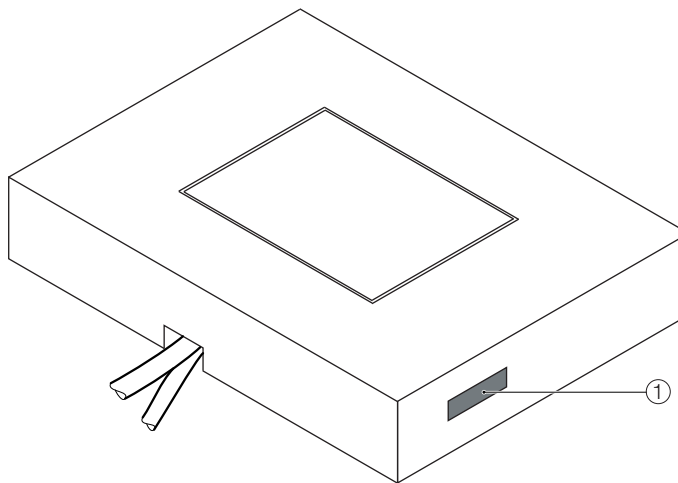


The configuration file of an e-touchBOX or e-touchPANEL contains the system settings (such as addresses of the emergency lamps, unit/test group names). It is also a backup file for the system settings of e-touchBOX/PANEL.

e-touchPANEL also has an Ethernet interface which enables configuration and operation via a PC or laptop. The display of the touchscreen and of the virtual touchscreen on the PC/laptop is synchronized in real time. By transmitting the current statuses of several panels, the entire system can be monitored.

### 6.1 Infrared interface

The infrared interface is located in the bottom area of the right side of the e-touchBOX/PANEL.



① Infrared interface

#### 6.1.1 Adjusting the infrared settings

Prior to an infrared transmission, the following settings must be made:

1. Click on the **Main Menu** symbol.
2. Click on the **Configuration** button.
3. Click on the **IrDA** tab.
4. To make the e-touchBOX/PANEL visible for other infrared devices, activate the **Enable discovery** check box.
5. To be able to receive data with the e-touchBOX/PANEL, activate the **Enable file reception** check box.

## 6.1.2 Setting up the infrared connection



Shield infrared interfaces from direct sunlight, flashlight, fluorescent light and signals of remote controls and other infrared devices.

Ensure that no objects between the infrared interfaces can disturb transmission.

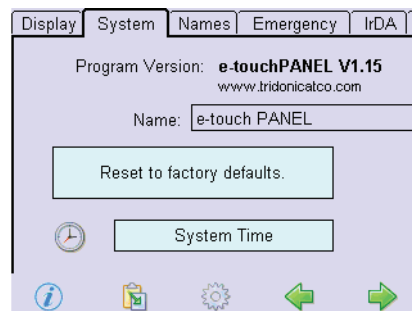
1. Position the PC/laptop and e-touchBOX/PANEL in such a way that their infrared interfaces are opposite to each other. They must be no more than 1 m apart and no more than 15° twisted against each other.
2. Prepare the PC/laptop for sending via infrared (see operating instructions of the manufacturer).
3. In e-touchBOX/PANEL click on the **Main Menu** symbol.
4. Click on the **Configuration** button.
5. Click on the **IrDA** tab.
6. Ensure that **Enable discovery** and **Enable file reception** are activated.
  - = If the conditions for receiving are sufficient, the name of the PC/laptop is indicated in the **Infrared devices** field.
  - The infrared transmission symbol is displayed in the task bar of the PC/laptop.

## 6.1.3 Determining the program version

The program version can be determined as follows:

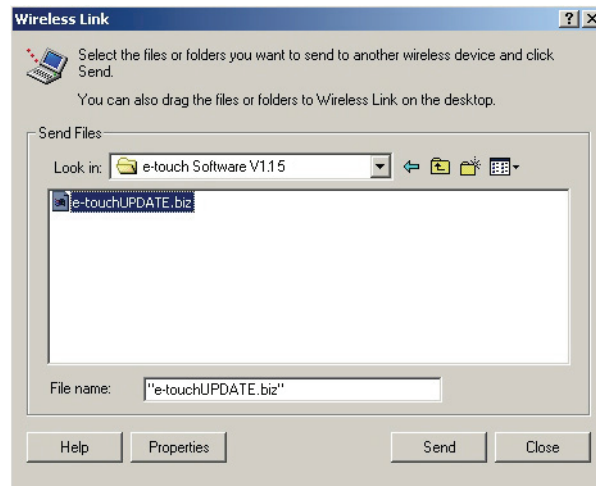


1. In e-touchBOX/PANEL click on the **Main Menu** symbol.
2. Click on the **Configuration** button.
3. Click on the **System** tab.
  - = The program version is indicated on the **System** tab.



### 6.1.4 Installing the update of the application software

1. Click on the infrared transmission symbol in the task bar of the PC/laptop.  
= A dialog box for the selection of files is displayed.



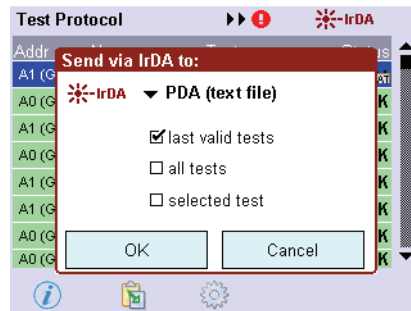
2. Select update file e-touchUPDATE.biz and click **Send**.
3. Confirm with **OK** on the touchscreen.  
= The file is saved and e-touchBOX/PANEL is restarted. After restarting, the application software update is installed.

### 6.1.5 Downloading the test protocol

- **Discovery enabled** is activated.
- **Enable file reception** is activated.



1. Click on the **Test protocol** symbol.
2. Click on the **IrDA** button.  
= The dialog box **With IrDA, transmit to:** is displayed.



3. If you want to output all tests that were performed last for all units, activate the option field **Last valid tests**.

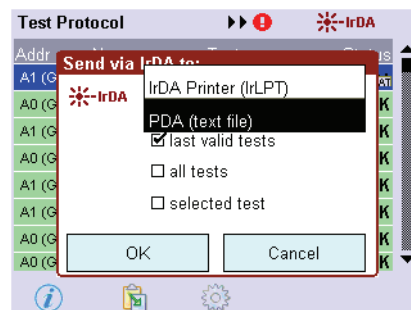
- or -

If you want to output all tests that were performed for all units until now, activate the option field **All tests**.

- or -

If you want to output the marked test, activate the option field **Selected test**.

= A dropdown menu is displayed in the marked option field.



4. If the test is to be sent directly to an infrared printer, select **IrDA printer (IrLPT)** in the dropdown menu.

- or -

If the test is to be downloaded as a text file, select **PDA (text file)** in the dropdown menu.

= The test is printed or downloaded.

## 6.2 Ethernet interface

To connect e-touchPANEL to a PC/laptop via Ethernet, a network cable is required.

To establish the connection to e-touchPANEL in a network, each e-touchPANEL must be assigned an individual IP address. If, e.g., you want to include several e-touchPANEL into an existing company network, consult your IT specialist for the IP addresses. The network address cannot be automatically obtained from a DHCP server.

For networks with Firewall, Switch, etc., please also contact your IT specialist.

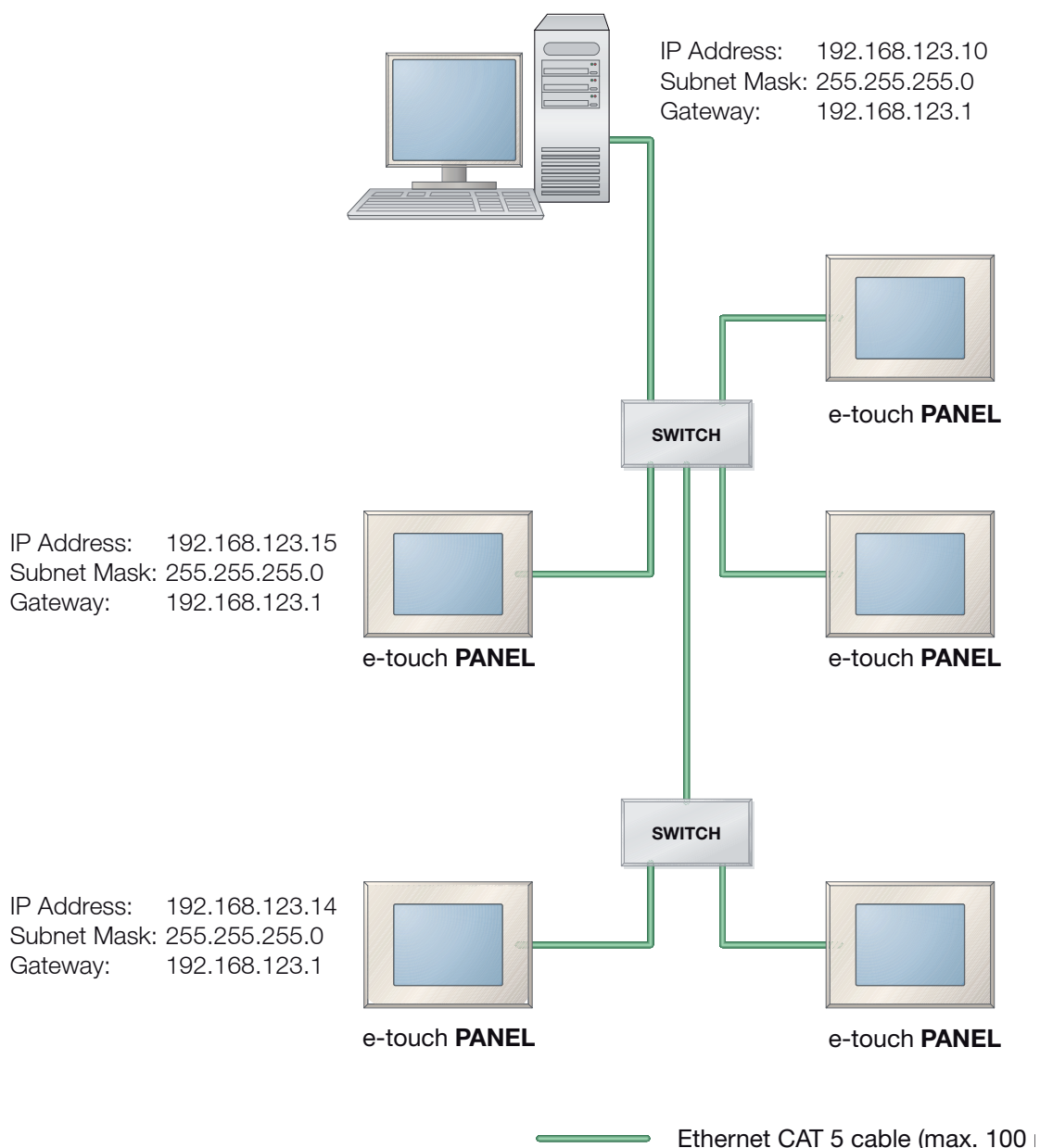
Apart from calibrating the touchscreen, all functions of the e-touchPANEL can be executed with the connected PC/laptop via Ethernet.

## NOTICE

The device might become damaged if the touchscreen is calibrated with the remote control via Ethernet connection.

- Only calibrate the device using the touchpanel of the e-touchPANEL and not via the web browser.

**Network connection** The following figure shows an example of how several panels can be integrated in one network.



**Point-to-point connection**

If a point-to-point connection is to be established, a crossed network cable must be used.

IP Address: 192.168.123.10  
Subnet Mask: 255.255.255.0  
Gateway: 192.168.123.1

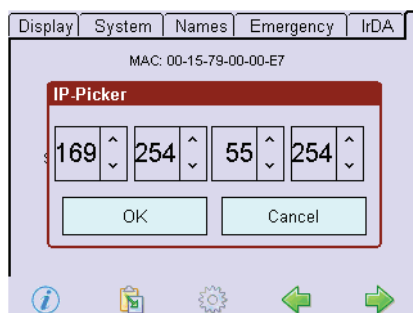


— Crossover CAT 5 cable (max. 1

**6.2.1 Setting IP address in e-touchPANEL**

– The **Configuration** menu is selected.

1. Click on the **TCP** tab.
2. Click on **IP address**.



= The dialog box **IP picker** is displayed.

3. Set the **IP address** with the arrow keys and confirm with **OK**.
4. To set **Subnet Mask** and **Gateway**, repeat steps 2 and 3.
5. Click on the **Main Menu** symbol.



= The IP address is stored in the e-touchPANEL.

**6.2.2 Setting IP address for network with several e-touchPANEL**

To establish an Ethernet connection to e-touchPANEL in a network, each Panel must be assigned an individual IP address. The ›Network connection‹ diagram shows an example of an addressing process "Ethernet interface", page 22.




Please refer to the Help menu or to your operating system's manual on how to assign a permanent IP address.

The previous chapter explains how to set the IP address in the e-touchPANEL "Network connection", page 23.



For PCs/laptops with Firewall or other protection software, please contact your IT specialist.

1. Connect the PC/laptop and the e-touchPANEL via the network switch using network cables.
2. On the PC/laptop, the following values must be set for the NIC to which the switch for the e-touchPANEL is connected:  
IP address: **192.168.123.10**  
Subnet Mask: **255.255.255.0**  
Gateway: **192.168.123.1**

3. Set the following values for the first e-touchPANEL:  
 IP address: **192.168.123.11**  
 Subnet Mask: **255.255.255.0**  
 Gateway: **192.168.123.1**
4. Set the following values for the second e-touchPANEL:  
 IP address: **192.168.123.12**  
 Subnet Mask: **255.255.255.0**  
 Gateway: **192.168.123.1**
5. Set the following values for the third e-touchPANEL:  
 IP address: **192.168.123.13**  
 Subnet Mask: **255.255.255.0**  
 Gateway: **192.168.123.1**
6. Increase the last digit of the IP address if you want to set additional e-touchPANEL. 255 is the highest possible number.
-  7. Click on the **Main Menu** symbol to store the IP address in the e-touchPANEL.  
 = e-touchPANEL can be controlled via remote control using a web browser with Java Applet installed.

### 6.2.3 Setting IP address for point-to-point connections


A crossed network cable is required for a point-to-point connection of an e-touchPANEL to a PC/laptop.



Please refer to the Help menu or to your operating system's manual on how to assign a permanent IP address.  
 The previous chapter explains how to set the IP address in the e-touchPANEL "Setting IP address in e-touchPANEL", page 24.



For PCs/laptops with Firewall or other protection software, please contact your IT specialist.

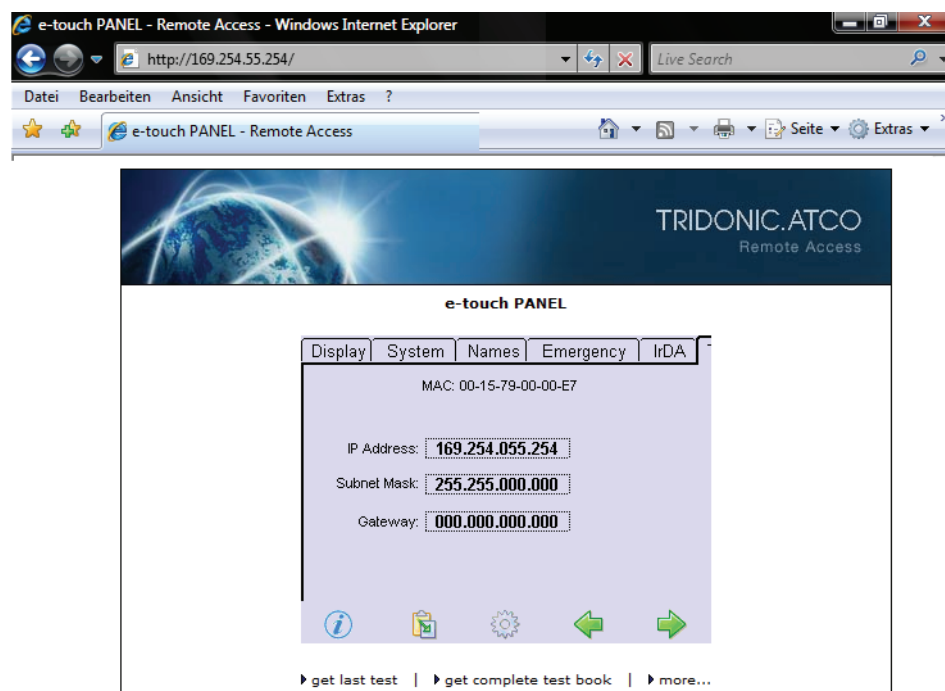
1. Connect e-touchPANEL with the PC/laptop using a crossed network cable.
2. On the PC/laptop, the following values must be set for the NIC the e-touchPANEL is connected to:  
 IP address: **192.168.123.10**  
 Subnet Mask: **255.255.255.0**  
 Gateway: **192.168.123.1**
3. Set the following values for e-touchPANEL:  
 IP address: **192.168.123.11**  
 Subnet Mask: **255.255.255.0**  
 Gateway: **192.168.123.1**
-  4. Click on the **Main Menu** symbol to store the IP address in the e-touchPANEL.  
 = e-touchPANEL can be controlled via remote control using a web browser with Java Applet installed.

### 6.2.4 Establishing the connection to e-touchPANEL

The remote control of the e-touchPANEL is based on an HTML page with Java Applet.

In order to operate e-touchPANEL on a PC/laptop the ›Java Runtime Environment (JRE)‹ must be installed on the PC/laptop ([www.java.com](http://www.java.com)). A standard web browser is used for the connection (e.g. ›MS Explorer‹, ›Firefox‹).

- Web browser is open.
- ›Java Runtime Environment‹ is installed.
- Enter the IP address of e-touchPANEL in the address field and confirm with the Enter key.



= e-touchPANEL appears in the browser and can be operated and configured using the mouse pointer and keyboard. In addition, the links **get last test**, **get complete test book** and **more...** are displayed "Additional Ethernet functions", page 27.

## 6.3 Additional Ethernet functions

### 6.3.1 Downloading the test protocol

- If you want to output all tests that were performed last for all units, activate the option field **get last test** (last valid tests).

- or -

If you want to output all tests that were performed for all units until now, activate the option field **get complete test book** (all tests).

= The last valid test protocol entries or all test protocol entries are displayed.

```
*****
All Test Protocol Entries
e-touch PANEL
*****

A1 (G2)    Lamp 1
           FT, Mon, 12.11.2007 16:07:  ERROR
           Battery Failure
           DALI EmMode: 0x02
           DALI FailureStatus: 0x44
           DALI EmStatus: 0x02
A0 (G1)    LED
           FT, Mon, 12.11.2007 16:07:  OK
           DALI EmMode: 0x02
           DALI FailureStatus: 0x00
           DALI EmStatus: 0x0E
A1 (G2)    Lamp 1
           FT, Mon, 12.11.2007 16:06:  OK
           DALI EmMode: 0x02
           DALI FailureStatus: 0x00
           DALI EmStatus: 0x02
A0 (G1)    LED
           FT, Mon, 12.11.2007 16:06:  OK
           DALI EmMode: 0x02
           DALI FailureStatus: 0x00
           DALI EmStatus: 0x0E
A1 (G2)    Lamp 1
           FT, Mon, 12.11.2007 16:04:  OK
           DALI EmMode: 0x02
           DALI FailureStatus: 0x00
           DALI EmStatus: 0x02
A1 (G2)    Lamp 1
           FT, Tue, 06.11.2007 23:00:  OK
           DALI EmMode: 0x02
           DALI FailureStatus: 0x00
           DALI EmStatus: 0x02
A0 (G1)    LED
           FT, Tue, 06.11.2007 11:32:  OK
```

### 6.3.2 Downloading/uploading file

Via the Ethernet interface you can download files to a PC/laptop or upload files from a PC/laptop to e-touchPANEL.

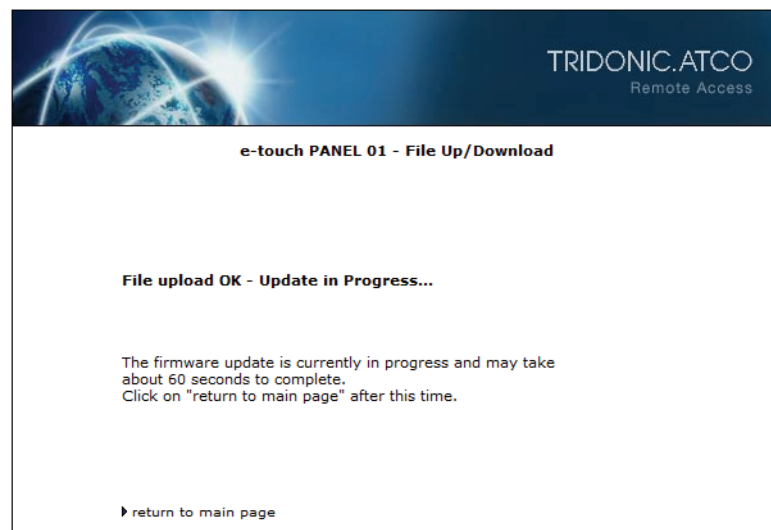


A security enquiry informs you that the e-touchPANEL will be reset after uploading a configuration file. No test protocols are deleted during resetting.

1. Click the link **more...** in the browser.  
= The **File Up/Download** window is displayed.



2. To download a configuration file from e-touchPANEL, click the link **get config file**.  
= The configuration file is stored in the PC/laptop.
3. To load a configuration file or firmware update to an e-touchPANEL, click the **Search** button.
4. Select firmware update or configuration file and click **upload**.
5. Confirm security enquiry with **OK**.  
= Uploading is started.



## 7 Help in the case of problems

### 7.1 Reset of settings

All settings can be reset to the factory default values. In this case, the addressing of the emergency units is also deleted.



1. Click on the **Main Menu** symbol.
2. Click on the **Configuration** button.
3. Click on the **System** tab.
4. Click on the **Reset to factory defaults** button.

### 7.2 The touchscreen does not react properly

If the touchscreen does not react properly, it must be recalibrated.

#### **NOTICE**

**The device might become damaged if the touchscreen is calibrated with the remote control via Ethernet connection.**

- Only calibrate the device using the touchpanel of the e-touchPANEL and not via the web browser.



1. Click on the **Main Menu** symbol.
2. Click on the **Configuration** button.
3. Click on the **Calibrate** button.



4. With a pen, touch the center of the calibration symbol. The symbol is displayed three times.

### 7.3 e-touchBOX/PANEL does not recognize other infrared devices

If the e-touchBOX/PANEL does not recognize other infrared devices as desired, the infrared interface can be reset.



1. Click on the **Main Menu** symbol.
2. Click on the **Configuration** button.
3. Click on the **IrDA** tab.
4. Click on the **Reset** button.

### 7.4 Ethernet connection cannot be established

Only e-touchPANEL has an Ethernet interface.

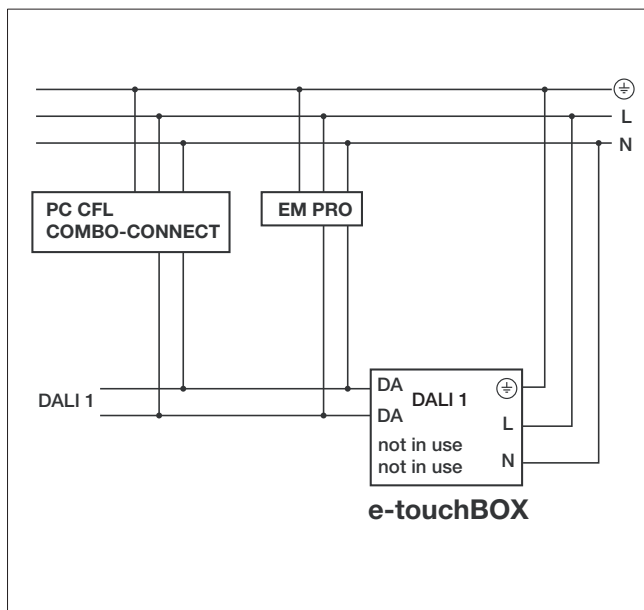
- Ensure that a crossed network cable was used for a point-to-point connection (e-touchPANEL directly connected with PC/laptop).
- Ensure that the IP address entered in e-touchPANEL and in the browser is correct "Setting IP address in e-touchPANEL", page 24.
- Ensure that no Firewall or protection software is disturbing the connection. If necessary, contact your IT specialist.

## 8 Technical data

|                                    | <b>e-touchBOX</b>                          | <b>e-touchPANEL</b>                    |
|------------------------------------|--|--|
| Article number                     | 24139015                                   | 24139117                               |
| Mains voltage                      | 110-240 V                                  | 230/240 V                              |
| Mains frequency                    | 50/60 Hz                                   | 50/60 HZ                               |
| Power consumption                  | 10 W                                       | 10 W                                   |
| Max. output current                | 200 mA                                     | -                                      |
| Interfaces                         | IrDA                                       | IrDA, Ethernet                         |
| Bus system                         | DALI<br>(no external bus supply required)  | DALI<br>(external bus supply required) |
| Number of DALI lines               | 1  | 2                                      |
| Addresses for units                | 60   | 60 for each DALI line (120)            |
| Dimensions<br>(L x W x H)          | 200 x 150 x 42 mm                          | 200 x 150 x 20 mm                      |
| Permissible ambient<br>temperature | 0-50 °C                                    |  |
| Weight                             | 0,92 kg                                    |  |
| Fastening distance (D)             | 155 mm                                     |  |
| Protection type                    | IP 20                                      |  |
| Protection class                   | SK I                                       |  |
| Screen                             | Touchpanel (5.7" / 320 x 240 / 256 colors) |  |

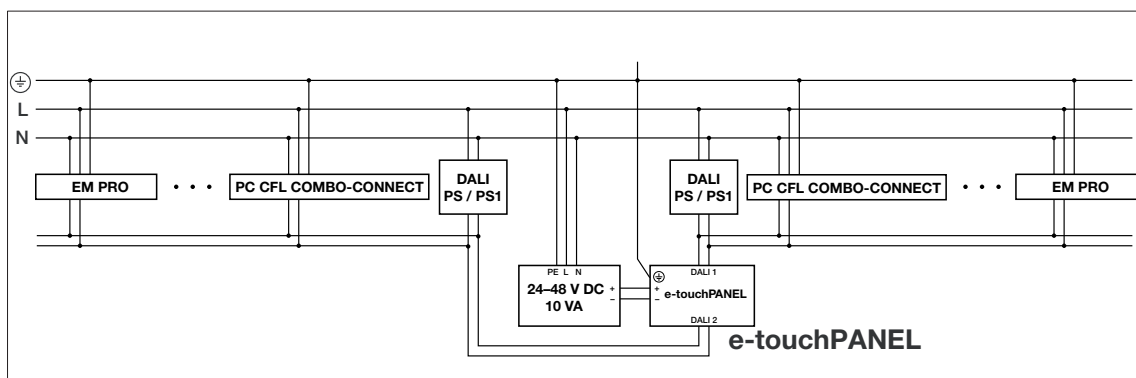
e-touchPANEL can also be supplied with power by the 8-wire Ethernet cable (Power over Ethernet (PoE)).

Circuit diagram  
e-touchBOX



e-touchBOX does not require a separate bus supply since the bus supply is already integrated.

Circuit diagram  
e-touchPANEL



e-touchPANEL requires a separate bus supply for each DALI line.

# 9 Disposal

In order to prevent damage to the environment:



- Dispose of the units in accordance with country-specific regulations.
- The units must not be disposed of in the domestic garbage or burnt.

## 10 Schedule for Ethernet Connection

|                      |  |
|----------------------|--|
| Name of e-touchPANEL |  |
| IP Address           |  |
| MAC Address          |  |
| Subnet Mask          |  |
| Default Gateway      |  |
| Annotation           |  |
| Name of e-touchPANEL |  |
| IP Address           |  |
| MAC Address          |  |
| Subnet Mask          |  |
| Default Gateway      |  |
| Annotation           |  |
| Name of e-touchPANEL |  |
| IP Address           |  |
| MAC Address          |  |
| Subnet Mask          |  |
| Default Gateway      |  |
| Annotation           |  |
| Name of e-touchPANEL |  |
| IP Address           |  |
| MAC Address          |  |
| Subnet Mask          |  |
| Default Gateway      |  |
| Annotation           |  |
| Name of e-touchPANEL |  |
| IP Address           |  |
| MAC Address          |  |
| Subnet Mask          |  |
| Default Gateway      |  |
| Annotation           |  |

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