FIREDESIGNER

Design software for fire detection and alarm, extinction and voice evacuation systems

SOFTWARE MANUAL

FireDesigner inim

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Chapter 1 General description

1.1 Software description

FireDesigner is the software that allows you to design and size fire-fighting systems and Inim Electronics equipment.

This system may consist of a single Previdia control panel or multiple control panels connected in a network. The software identifies the necessary function modules and accessories and compiles and sizes each loop, speaker line, and I/O line required.

Such software design can also have the purpose of:

- extrapolating data relating to the consumption of any configuration
- highlighting any critical issues
- providing reports and warning messages in the event of anomalies
- generating complete technical files with:
  - reports regarding cable sizing
  - reports regarding autonomy calculations
  - documentation regarding each device included in the system:
    - technical data sheets
    - certificates
    - manuals
    - CAD drawings

Solutions

Each solution is made up of an installation structure and the respective programming parameters.

Each solution is dedicated to a system with its own programming interface.

Database

The FireDesigner software allows the creation and management of a database containing the solutions modelled using the tools made available.

The saved solutions can be reused later for any measurements in the case of updates to the components of the system object of the solution. The software has its own database that allows you to retrieve stored solutions and import external solutions and therefore allows you to transfer files from one computer to another.

Minimum requirements and technical characteristics

Hardware	• Pentium 4 Processors (3.2 GHz) • 2 GB Ram • Voice board
Operative system	• Windows Vista, Vista 64 • Windows Seven, Seven 64 • Windows 8, 8 64 • Windows 8.1, 8.1 64 • Windows 10, 10 64 • Windows 11, 11 64
Required hard disk space	500 MB
Minimum video resolution	800 x 600
Connection interface	• USB • Ethernet • Cloud

1.2 Access to the software program

Login is requested on startup of the software in order to access the functions for the download of the official documentation relating to equipment or to generate a technical file:

The software asks for Inim Cloud credentials.

Login is required to access the functions that allow the download of documents relating to the components of the system configured in the solution loaded in the system.

Alternatively, it is possible to log in without credentials ("guest" user) but this disables the download features.

Once the login method is selected, a new empty solution will be initialized and the home page will be enabled, as shown below:

[A]	Heading and revision
[B]	Cluster in progress
[C]	Toolbar
[D]	Button to add a cluster
[E]	Active control panel area

The buttons on the left allow selection of the current cluster for configuration or the creation of a new one.

Based on the selections made, elements and images for the configuration of the system will appear in the control panel area.

1.3 Header and tools

The top section of the FireDesigner software window is common to all sections and to the Start page.

It shows the name, revision and logo of the software in use as well as the toolbar.

The toolbar has buttons to access the sections or management functions of the open software or solution and show the access status of the user.

Button		Function
	**Log in**	By means of this button it is possible to retrieve the login window. The button icon is associated with a stamp whose colour identifies the access status: ○ **red** – not accessed The window allows access with the appropriate credentials. ○ **green** – accessed Disconnect button available.
	**Solution management**	By means of this button it is possible to access the solutions management menu. Using the tools provided in this menu, the user will be able to generate a new solution, load previously saved solutions, save the current solution or perform import and export operations. ○  – to generate a new solution ○  – to open a new solution ○  ,  – to save the current solution ○  – to access the import and export functions of single solutions or groups of solutions (.ifd files, InimFireDesigner)
	**Consumption**	This button opens the summary screen of the electrical values of each component in the currently loaded solution.
	**Generate report**	This button opens a window with an available reporting selection menu relating to the currently loaded solution.
	**List of documents**	This button opens the screen for the downloading of the documents for each component in the solution currently loaded in the system.
	**Generate documentation**	This button opens a window with a menu for selecting the documentation to download, relating to the solution currently loaded in the system.
	**Settings**	A window will open with the options available for FireDesigner software.
	**Anomaly warnings**	This icon indicates the presence of system anomalies and is accompanied by the number of them. Clicking on them opens a window where you can consult the notices and navigate among them using the arrows at the top.

Chapter 2 Installing the software

The installation of the FireDesigner software must be carried out via the setup.exe file which can be downloaded from the reserved area of the www.inim.it website.

Th manufacture strongly suggests that you check the website page regularly in order to be informed about the most recent revision of the software and make the appropriate updates. Alternatively, you can access the "Updating" section of the software settings.

The revision of the installed software is always visible in the window title.

2.1 Software requirements

.NET Framework

In order to operate the FireDesigner software it is necessary to have the .NET Framework 3.5 platform installed and activated on the PC.

This component is typically present on PCs with Windows Seven (32 or 64 bit), Windows 8.0 (32 or 64 bit), Windows 8.1 (32 or 64 bit), Windows 10 (32 or 64 bit) or Windows 11 operating systems.

To understand whether Framework 3.5 is installed and activated, simply install and run the FireDesigner software. If Framework 3.5 is not installed, the operating system will generate an error message.

In order to install Framework 3.5, you must connect to the Microsoft website and download and install the file named dotNetFx40_Full_x86_x64.exe. For Windows 10 series operating systems, activation is required by accessing the "Programs and Features - Activating or Deactivating Windows Features" section under ".NET Framework".

2.2 Installation procedure

1. Access the reserved area of the www.inim.it website
2. Download the **setup.exe** installation file of the FireDesigner software.
3. Copy the setup.exe file to the desktop and start running as the "administrator" of the Windows system (by right clicking on the file icon).
4. Follow the setup wizard instructions.

Note

At the beginning of setup, the wizard will ask which users of the Windows system the installation is addressed to ("all users" or "current user").
Please note that if you select the "current user", the dataset produced by the software (database, saved solutions, etc.) will only be available for the current user and not for other users who have access to the computer or system in use.
If you select "all users", the dataset will be available to any user who has access to the computer or system.

5. On completion of the installation, the FireDesigner icon will appear on your desktop.

Chapter 3 Using the software program

3.1 Solutions

Each solution is made up of an installation structure and the respective programming parameters.

A solution refers to an entire installation. In this way it is possible to consult different solutions, through different instances of the software, for possible comparisons or design checks.

All solutions are created theoretically as they do not require connection to any device. The FireDesigner parameters are used to make a feasibility study on the designed system with regards to loads and consumption.

3.1.1 Database

This button takes you to the database access window.

From this point on, the term "solution" will be used to indicate a specific configuration of a system saved in the database.

Note

The FireDesigner software program does not allow you to keep more than one solution open at a time. However, it is possible to keep multiple instances of the software program running at the same time, each with a different solution, simply by starting the program again via the launch icon.

The database access window provides the following buttons:

Import		Imports a solution from an external ".ifd" file into the current solution replacing the one currently loaded in the system. The program asks the user if they wish to save the current solution before proceeding with the replacement. Together with the "Export" function it allows you to transfer a specific solution from one PC to another.
Export		Exports the solution currently loaded in the system as a ".ifd" file. If reports have been produced for the current solution, they will be inserted in the file along with the solution data. Together with the "Import" function it allows you to transfer a specific solution from one PC to another.
Import into the database		Imports solutions contained in an external ".ifd" file directly into the database of saved solutions to allow them to be loaded at a later time.
Export from the database		Exports one or more solutions as ".ifd" files directly from the database of saved solutions. As in the case of the exporting a single solution, here too the reports relating to each solution are taken where present. If the currently loaded solution is also selected from the solutions the user wishes to export, the program will ask if the user wants to save it before continuing.

The program can also be started directly from an ".ifd" file. In such cases, startup will occur in the same way as when started from a standard executable file up to the login window.

After the user logs in as a registered user or guest, the program will proceed as if importing a single solution.

So if the ".ifd" file from which the program was started contains only one solution, it will be loaded as the current solution in the system. If there are multiple solutions, the user will be asked to select which solution is to be imported as the current solution in the system.

3.2 Designer

For every solution in progress FireDesigner provides “Designer” in the main section of the software, where it is possible to carry out configuration operations:

[A]	Clusters list
[B]	Control panels list
[C]	Current control panel
[D]	Module details
[E]	Section Headings

The first column on the left lists all the clusters that make up the current solution *[A]*. The current cluster is highlighted in red while the others are in grey.

To add a new cluster just click on the button at the bottom of the list with the + sign.

Once the limit of 20 clusters is reached, it is no longer possible to add more. It is possible to add control panels to the current cluster by clicking again on the selected cluster sign, this will open a window for insertion of one or more control panels of a specific model.

A numbered list will appear in the second column *[B]* which indicates the number of control panels associated with the selected cluster. The control panel highlighted in blue is displayed on the right, all the others are grey.

In the control panel section it is possible to interact with the selected control panel *[C]* in order to add, remove or configure front-panel or internal modules.

By selecting a module in the control panel, it will be possible to view all the related details in the section on the far right *[D]*. In this section it is possible to proceed with the configuration of the module or one of its terminals.

Each of these sections has a heading *[E]* where the descriptions of the elements in progress can be read flanked by a coloured stamp (●, ●, ●). By clicking on one of these, it is possible to delete the element in progress.

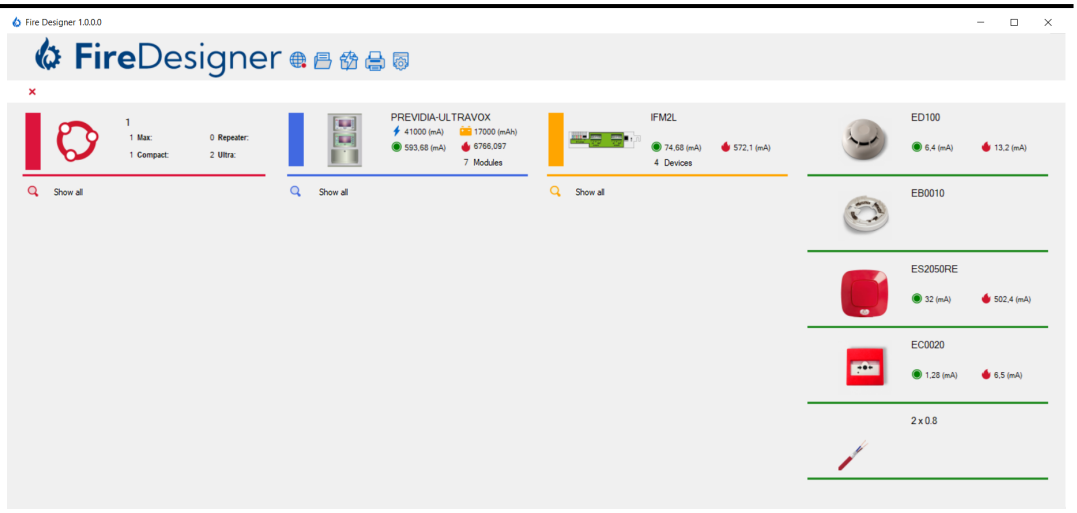
3.3 Electrical data

Accessing this section changes the display mode from standard to one showing the list of clusters with essential information.

By clicking on one of the clusters it is possible to display the exploded view of the cluster with all the elements in column and a summary of the consumption during stand-by and alarm status.

At maximum expansion of the system display, the consumption screen is divided into 4 columns (listed below starting from from the left):

- **Clusters list** – for each cluster the number of control panels, for each type, and repeaters are indicated
- **Control panels list** – for each control panel the electrical values, the number of accessory devices and modules supplied are indicated
- **Modules list** – shown are the electrical values relating to each module and the number of accessory devices provided
- **Accessories list** – shown are the values relating to each device



The electrical values displayed are as follows:

- – available output current (mA)
- – battery capacity (mAh)
- – stand-by current draw (mA)
- – current draw during alarm status (mA)

It is possible to filter the display of items to a specific cluster by left-clicking on the cluster in question.

All control panels are shown By selecting one of these, the modules and accessories of the control panel will be shown. Next, selecting a module displays the devices connected to the module.

Available under each column is a **Show all** button which annuls the viewing filter of the column.

3.4 Reporting

FireDesigner has functions for the analyses to be carried out on the Previdia systems and connected devices and therefore to produce reports, that is, reporting documents which can be drawn up in compliance with the CEI UNI 11224 standards.

To do this, it is necessary to open a solution and read the system, then select a control panel and enter the "Report" section via the appropriate button.

There are three types of reports that FireDesigner is currently able to produce:

- metric calculation
- consumption report
- cable report

Once the document type has been selected, the menu will ask the user the format in which they wish the document to be produced (.xlsx, .docx, .pdf) or whether to proceed with direct printing of the report without saving the file locally on the computer.

The reports produced are saved in two different ways depending on whether the solution for which they are being produced is saved in the local solution database or not:

- If the solution is not saved, the reports will be stored in a temporary folder that will be cleaned the next time the program is started.

  If the user subsequently saves the solution, all reports will be moved to the "Documents\FireDesigner\REPORT" folder, inside a folder named with the Save name.

- If the solution is already saved, the reports will be added to the "Documents\FireDesigner\REPORT" folder. If the folder does not exist, it will be created on the first report generated.

Metric calculation

Produced in .xlsx or .pdf format, this document is composed of a summary table of all the elements that make up the solution loaded into the system at the time of production of the report.

All entries referring to fire control panels imply the default control panel model of reference, that is, with all the expected modules mounted inside.

Consumption report

Produced in .docx or .pdf format, this document comprehensively summarises all the characteristics, regarding loads and consumption, of the elements that make up the solution loaded into the system.

The document is divided into sections, the number of which is equal to the number of clusters that make up the solution.

In each section, all the control panels that make up the relative cluster are described in detail. The following details are reported for each one:

- control panel model
- short description
- list of installed modules
- control panel range
- analysis of loads connected to the control panel modules
- analysis of control panel consumption
- any discrepancies found by the system

For each module present, one or more tables will be shown listing the devices that generate the load.

At the end of each section/cluster, all the technical discrepancies found by the system in the corresponding cluster will be reported.

Cable report

Produced in .docx or .pdf format, this document comprehensively summarises all the characteristics, regarding voltages and loads, of the cables used to connect the devices on the modules installed inside the control panels of the solution.

Similar to the consumption report, this document is also divided into sections, one for each cluster, and within each section the control panels that make up the relative cluster are described in detail.

For each control panel, a summary table of the cables used is provided, describing:

- module to which the cable is connected, with reference to the installation slot in the control panel
- type of cable used
- cable section in mm^2
- cable length in m
- compliance check

A further table is then provided, one for each loop the devices are connected to, that lists the devices connected to the loop, which reports:

- name of the device
- number of devices
- number of devices configured in alarm status

Shown below each of these tables are the voltages, measured in Volts, during stand-by and in alarm status

For each loop any technical discrepancies will be highlighted.

At the end of each section, any discrepancies detected by the system on the reference cluster will be reported.

3.5 Documentation

FireDesigner provides sections for viewing and downloading the documentation (manuals, technical sheets and certifications) relating to each component of the system that is being viewed via the open solution.

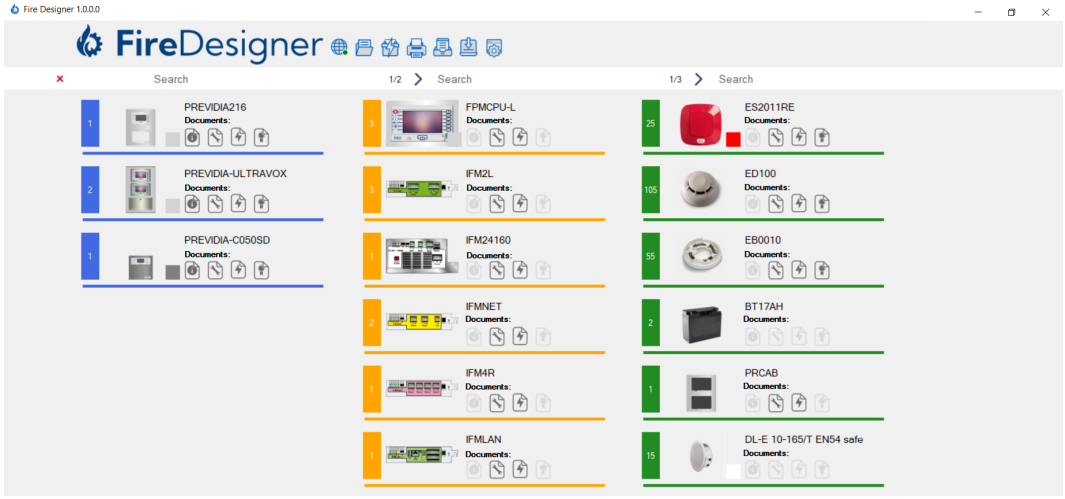
Access to the "Documents list" section shows the list of elements that make up the system divided into columns. In these, each element is represented by an icon with alongside the relevant information and buttons for viewing the documents.

Note

This section is accessible only when logged in as a Inim Cloud user.

At maximum expansion of the system view, the consumption screen is divided into 3 columns (listed below starting from the from left):

- **Control panels list**
- **Modules list**
- **Accessory device list**



For each element displayed, depending on the model and availability, it is possible to view:

- – Enclosure colour
- – User's Manual
- – Installer's Manual (installation, programming, technical guides)
- – Technical data sheets
- – Certificates and Declarations of Conformity

The header of each column provides a text search engine ("Search") and, optionally, arrows for navigating the pages in the column itself.

The "Generate documentation" menu button opens a window with a menu for selecting the type of documentation to download.

Note

This section is accessible only when logged in as a Inim Cloud user.

Once confirmation has been given via the **Create folder** button, the program will download the documents, of the selected types, of all the components of the solution currently loaded in the system. These documents will be downloaded to a folder created by the program in the "Documents\FireDesigner\DOCUMENTATION" folder.

3.6 Software Settings

This button opens the window with the software settings. This window is divided into tree sections:

- general
- template
- updating

General

This section contains the "Language" box for the selection of the language to be used to view the program. On changing the language, the program will ask the user if they also wish to change the language of the templates for the three types of reports that the program can produce.

There is also a "Manage Product Codes" button which opens a window where it is possible to customize the default product codes, by replacing them with terms of personal choice.

Template

In this section there are three buttons with which to view or customize the report templates reproduced by the program.

By clicking on one of the three icons in the section, the relevant template will open with the appropriate software depending on the settings of the PC in use.

However, it is possible to reset the templates to their initial form by means of the relevant delete button.

Update

The section shows the FireDesigner software revision in use and offers the **Check for updates** button which will start a search for software updates. If updates are available, the same button will start their download and installation.

After having making changes to the settings, closing the window will apply the changes to the software.

3.7 List of anomalies

The appearance of the anomaly icon next to the toolbar indicates that anomalies have been detected in the configuration of the selected cluster. The subscript number indicates the number.

When the user selects this icon, a window containing the list of detected alarms will be displayed in which it is possible to view each alarm accompanied by:

This icon indicates the presence of system anomalies and is accompanied by the number of them.

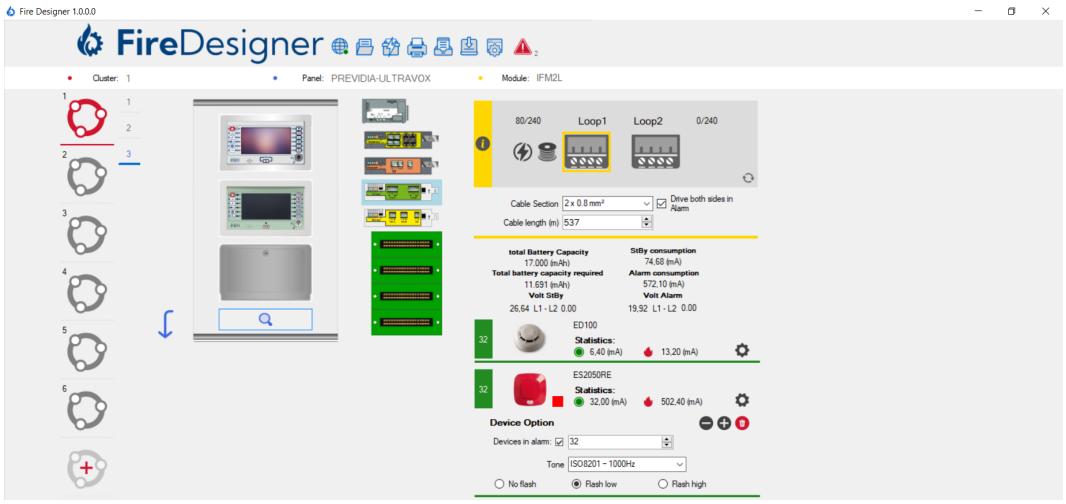
- title
- details on the location of the anomaly (cluster, control panel, module, device)
- brief description of the anomaly and suggested solution

Anomaly	Description	Possible solution
Maximum number of control panels exceeded	The maximum number of 48 control panels that can be assigned to a single cluster has been exceeded.	Remove excess control panels and put them into a new cluster.
Missing network module	Multiple control panels are present in the same cluster and at least one of them does not have an IFMNET or IFAMIDANET network module.	Generally it is necessary to have an IFMNET module inserted in each Previdia control panel. For Previdia Ultra control panels it is necessary to insert both an IFMNET module and an IFAMIDANET module in at least one of them, while for all the others it is sufficient to insert an IFAMIDANET module.
Audio not shared	The configuration of the control panels in the cluster does not constitute a valid IDANet network for streaming audio tracks.	Insert an IFAMIDANET module in all Previdia Ultra control panels
Maximum number of network modules exceeded	Multiple network modules (maximum 1) are inserted in the same control panel. In the case of the Previdia Ultra control panel series it is possible to have concurrently an IFMNET module and an IFAMIDANET module.	Reset the number of IFMNET network modules to one per control panel by removing the excess modules.
Missing IFM24160 module	There is no power supply module in the control panel.	Insert at least one power module in each control panel.
Maximum number of IFM2L modules exceeded	Too many IFM2L modules are inserted in the control panel (maximum 8 per control panel).	Remove excess IFM2L modules.
Maximum number of IFM4R modules exceeded	Too many IFM4R modules are inserted in the control panel (maximum 16 per control panel).	Remove excess IFM4R modules.
Maximum number of IFM4IO modules exceeded	Too many IFM4IO modules have been installed in the control panel (maximum 16 per control panel).	Remove excess IFM4IO modules.
Maximum number of IFMDIAL modules exceeded	Too many IFMDIAL modules are inserted in the control panel (maximum 1 per control panel).	Remove excess IFMDIAL modules.
Maximum number of IFM16IO modules exceeded	Too many IFM16IO modules are inserted in the control panel (maximum 4 per control panel).	Remove excess IFM16IO modules.

Anomaly	Description	Possible solution
Maximum number of IFMLAN modules exceeded	Too many IFMLAN modules are inserted in the control panel (maximum 1 per control panel).	Remove excess IFMLAN modules.
Maximum number of IFMEXT modules exceeded	Too many IFMEXT modules are inserted in the control panel (maximum 5 with FPMEXT module inserted and maximum 24 per control panel) or when FPMEXT modules are inserted that are not necessary for the number of IFMEXT modules inserted in the control panel.	Insert no more than 24 IFMEXT modules in the control panel, in respect of the rule of 5 IFMEXT modules for each FPMEXT module.
Module incompatible with the control panel model	The inserted module is incompatible with the control panel (e.g. Previdia Ultra)	Remove incompatible modules.
Module incompatible with the control panel model	The inserted module is incompatible with the control panel (e.g. Previdia Vox)	Remove incompatible modules.
Maximum number of FPMCPU modules exceeded	Too many FPMCPU modules are inserted in the control panel (minimum 1, maximum 2 per control panel).	Remove excess FPMCPU modules.
Extinction configuration	There are discrepancies in the configuration of the FPMEXT extinction modules in the control panel: presence of FPMEXT without IFMEXT modules inserted in the control panel or no FPMEXT with IFMEXT modules inserted.	Insert one FPMEXT module in the control panel, in the cabinet doors, for every five IFMEXT modules inserted in the control panel.
Incorrect repeater configuration	An FPMCPU has been inserted in the cluster as a remote repeater and there are discrepancies (for example the absence of an accessory PRREP enclosure).	Insert an accessory PRREP in context with the repeater in the control panel accessories.
Number of PREVIDIA-C-DIAL modules	In the Previdia Compact control panel series two PREVIDIA-C-DIAL modules are inserted concurrently in the same control panel.	Remove excess C-DIAL modules.
Incompatible PREVIDIA-C-COMLAN/PREVIDIA-C-COM modules	In control panels of the Previdia Compact series multiple PREVIDIA-C-COMLAN/PREVIDIA-C-COM modules are inserted concurrently in the same control panel.	Remove excess PREVIDIA-C-COMLAN/PREVIDIA-C-COM modules.
Number of microphone bases	The number of microphone bases exceeds the limit of the power line to which they are connected (this limit depends on the type of cable used and its length).	Remove excess microphone bases, or use a shorter cable or a cable with a larger cross-section.
Maximum number of devices exceeded	The number of devices connected to a module exceeds the maximum capacity of the module (e.g. 240 devices on IFM2L loop).	Remove excess devices in order to bring the number back below the maximum threshold.
IAS-ADAPT1000 recommended use	Audio sources are connected to the analogue inputs of the IFAMEVC or IFAMAMP modules.	Add an IAS-ADAPT1000 to the control panel accessories for every two sources selected in the analogue inputs of the IFAMEVC and IFAMAMP modules.
Missing IPG-PTT/IPG-Gooseneck accessory	There are microphone bases that have not been assigned an IPG-PTT or IPG-Goosneck accessory.	Assign an PTT/Gooseneck accessory to all microphone bases that have nothing assigned to them.
Emergency microphone bases cable	Emergency microphone bases have been connected to the control panel but the specified cable is not “fire resistant”.	Replace the selected cable with “fire resistant” cable, or change the type of microphone bases from emergency to standard.
IFAMAMP output overloaded	The load of the speakers on the IFAMAMP amplifier module (sum of the loads on both lines) exceeds 250 Watts.	Remove the speakers to reduce the load on the lines, or change the speaker load in order to reduce it.
Overload on the cable	The load loss on one of the installed cables is greater than 10% of the total load on the line of the cable.	Remove devices from the overloaded cable line or change the parameters of the connected devices in order to reduce the total load.
Loop overload	The load on a loop exceeds the maximum load limit of 500mA.	Remove devices to reduce the load on the loop or change the device parameters to reduce the total load (e.g. by reducing the number of devices in alarm status).
Boostfan device	In control panels of the Previdia Ultra series cabinets have been added in which no power supply is installed or in which more than three IFAMAMP modules are inserted	Insert an accessory PRCAB-Boostfan (one for each control panel cabinet).
Extra Boostfan	Among the accessories of the control panel, the number of PRCAB-Boostfans is greater than the number of cabinets that make up the control panel.	Remove excess PRCAB-Boostfans.
Boostfan over limit	The number of PRCAB-Boostfans included among the accessories of the control panel exceeds the maximum number of cabinets that can make up a control panel (maximum 4 cabinets: 1 main + 3 extra).	Remove excess PRCAB-Boostfans.
Low loop voltage	The voltage on a loop drops below 20V. Since this is a measure influenced by the distribution of the points on the loop, the software performs the calculation by placing itself in an intermediate scenario with equidistant points and similar consumption.	Increase the loop supply voltage, or use a larger cross-section cable, or a shorter cable, or reduce the number of devices connected to the loop.
Control panel battery capacity too low	The capacity of the battery installed in the control panel is unable to provide the level of autonomy required for efficient operation of the control panel itself.	Where possible, select a battery with higher capacity, or remove modules/devices from the control panel in order to reduce the total consumption.
Maximum number of IFAMEVAC modules exceeded	Too many IFAMEVC modules are inserted in the control panel (maximum 1 per control panel)	Remove excess IFAMEVAC modules.

Chapter 4 Designing a system

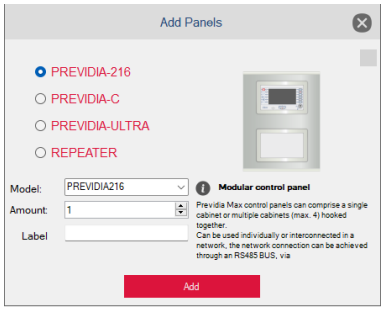
The design of a system starts from the selection of a cluster from those included in the open solution and displayed in "Designer" mode.



Adding control panels

It is possible to add control panels to the current cluster by clicking on the cluster symbol in the left column of the Designer. On mouseover, the icon will show a + sign.

When clicked the window for adding control panels will be displayed on the screen. In this screen it will be possible to select:



- the series the Previdia control panel belongs to, starting from the basic model
- the control panel model, selectable from the variants of the basic model
- the number of control panels of the selected model
- the description of the control panel, by inserting it in the appropriate box

The window provides a brief description, viewable in extended version by moving the mouse pointer over the information symbol "ⓘ", and the colour of the selected model, via the square on the top right ▢.

After clicking on "**Add**", the control-panel column alongside the cluster icons will increase by the number of control panels added.

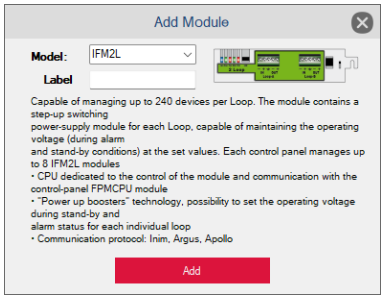
Added modules

Once a control panel has been selected, it is possible to add modules to its free slots by selecting the slot for the module.

The available slots depend on the control panel model, therefore, the modules to be inserted also depend on the available slots:

Slot	Insertable module	Previdia control panels
	Front-plate module	Max and Ultra
	Cabinet	Max and Ultra
	Power supply module	Ultra (add-on cabinet)

Slot	Insertable module	Previdia control panels
	Internal module	Max and Ultra
	Accessory board	Compact



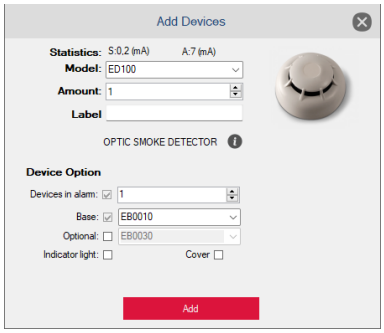
Once the slot is selected, the window for adding modules will be displayed in which the user can select the desired module type. The list of modules is filtered by control-panel type and the selected slot.

Each module provides a brief description, shown inside the window, the colour of the selected model, where necessary, and on the top right a box for entering the description.

After clicking on "**Add**", the empty slot icon will be replaced by the selected module, thus making the module configurable.

Adding devices

The addition of devices to be connected to a loop, an I/O line or any terminal available on a control panel or its module is possible by clicking on the respective terminal icon.



The window provides the box for the selection of the device to be added and boxes for the selection of their number and description.

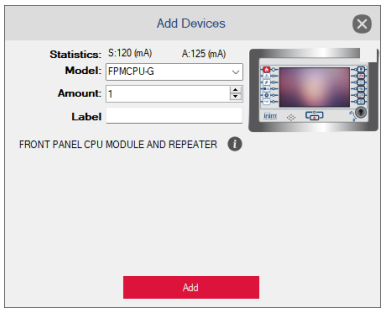
Proffered is a brief description of the device, viewable in extended version by moving the mouse pointer over the information symbol "ⓘ", and the colour of the selected model and, if necessary, via the square on the top right .

The software also provides options, which vary depending on the device, and which can be configured for the sizing of the line.

After clicking on "**Add**", a section will appear with the icon of the selected device and the respective data. The relative "⚙" button allows changes to the number of accessories in the configuration, thus changing the number in the corresponding **green** box.

Adding accessories

After selecting any control panel, its layout will show an icon at the bottom that allows viewing of the control panel details in the subsection on the right.



This section allows the control panel to be configured even further, by the addition of accessory devices via the appropriate "⊕" button. Clicking on it will open a window where it is possible to select the type of accessory desired.

Inside the window each accessory is accompanied by a brief description, the colour of the selected model, where necessary, on the top right , and checkboxes for the selection of the number and description.

After clicking on "**Add**", a section will appear with the icon of the selected accessory and the respective data. The relative "⚙" button allows modification of the number of accessories in the configuration, consequently changing the number in the corresponding **green** box.

Deleting elements

There are several ways to delete an element in the solution:

- By means of the coloured bullet points (●, ●, ●) positioned in the header after selecting the element
- Via the drop-down menu that can be accessed by right-clicking on the selected element or on a slot, whether full or empty:
  - **Copy** – copies a module included in the control panel memory
  - **Paste** – pastes a previously copied module into an empty slot on the control panel
  - **Delete** – eliminates the selected item
  - **Info** – provides information on the selected element (electrical parameters and documentation)

- For accessory devices, deletion is possible through the options reachable via the relevant "⚙" button.

Chapter 5 Sizing a system

The sizing of a system follows the design, by inserting the data that makes it possible to assess the validity of the project or to recover material for metric calculation documents and reports regarding materials in use and electrical consumption.

The data required depends on the device or selected system component.

After any element (control panel, module, device, accessory) has been included in the system project, by selecting the respective image or icon from the "Designer" page, it will be possible to view the electrical parameters and details and thus proceed with sizing.

Control panel sizing

After selecting any control panel from one of the clusters in the open solution, the "Designer" will show the control panel layout, the connected modules and accessories.

Here, in addition to selecting each module for the purpose of viewing its parameters, it is possible to click on the icon at the bottom in order to display, in the subsection on the right, the control panel sizing parameters. The insertion of such parameters occurs via selection of the relevant boxes:

- operating time without batteries during stand by (hours)
- operating time without batteries during alarm (minutes)
- efficiency factor of the batteries

Further electrical data (currents, consumption and capacity, during stand by and alarm) in relation to the control panel and batteries can be views by clicking on the "ⓘ" icon.

Loop sizing

Loop sizing is achieved by selecting the icon of the respective terminal (either starting from the subsection of an IFM2L module, for Previdia Max or Ultra, either via the **LOOP** button of a Previdia Compact).

After clicking the mouse, under the maximum number of connected devices allowed, the following buttons will appear:

- – provides two boxes where you can enter in Volts, the value of power supplied to the loop during stand-by and alarm
- – provides two boxes where you can enter the cross-section (mm^2) and length (m) of the cable used and a checkbox to indicate the driving type

The "↻" button allows display of the updated data depending on the changed settings.

Terminal sizing

The sizing of the loads on the device lines (detectors, call points, telephones, speakers, etc.) is done by selecting the image of one of the modules equipped with terminals to which the devices are connected, or for Previdia Compact control panels, starting from the **I/O** button.

In this case, the section on the right shows the electrical data of the power supply and batteries and all supplied terminals are listed. Each of these two boxes provides:

- – load during stand-by (mA)
- – load in alarm status (mA)

Depending on the module being configured, the device line can be selected via the icon of the relevant terminal. In this case, the sizing may include the insertion of data regarding the cable used, cross-section (mm^2) and length (m), via the "⛁" button which appears after the selection.

Power sizing

Power Sizing provides electrical data for the power supply and batteries and a check box for the selection of the type of batteries in use.

This is done by selecting the image of the power supply module, for Previdia Max and Ultra control panels, or the **PSU** button of a Previdia Compact).

Module sizing

Where necessary for the sizing of the system, depending on the selected module, other parameters and options may appear in addition to those indicated above.

Chapter 6 General Information

6.1 Manufacturer's details

Manufacturer: Inim Electronics S.r.l.
Production plant: Centobuchi, via Dei Lavoratori 10
63076 Monteprandone (AP), Italia
Tel.:+39 0735 705007
Fax:+39 0735 734912
E-mailinfo@inim.it
Web:www.inim.it

The persons authorized by the manufacturer to repair or replace the parts of this system have authorization to work only on devices marketed under the brand Inim Electronics.

6.2 About this manual

Manual code: DCMIINE0FIREDESIGNER
Revision:100

6.3 Copyright

6.4 Terminology

Panel, control panel, device	Refer to the main supervisory unit and any constituent parts of the security system.
Left, Right, Behind, Above, Below	Refer to the directions as perceived by the operator when directly in front of the mounted device.
Qualified personnel	Persons whose training, expertise and knowledge of the products and laws regarding security systems, are able to create, in accordance with the requirements of the purchaser, the most suitable solution for the protected premises.
Select	Click on a specific element of the interface (drop-down menu, options box, graphic object, etc.).
Press	Click-on/push a video button/key on a keypad or screen.

6.5 Graphic conventions

Note	The notes contain important information relating to the text.

Attention!

The DANGER warnings indicate that total or partial disregard of the procedure could injure the operator or persons in the vicinity.

EN54

Such indications indicate that the information and instructions refer to European standards.

Notes

Notes

Evolving Protection

Inim Electronics S.r.l.

ISO 9001 Quality Management
certified by BSI with certificate number FM530352

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