

TCP/IP/WEB

Operating Manual

Revision 1.2

Dec 2017

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1. Open TCP-IP-WEB and login

1.1. Open TCP-IP-WEB

From local TCP/IP/WEB/03 computer, press the program icon to start the application.

1.2. Login screen

Type the user name and password and press the **SUBMIT** button.

If the user name and password are correct, you will be automatically redirected to the TCP-IP-WEB main display.

Note: The user names and passwords are assigned by the TCP-IP-WEB administrator.

Select the "Save password" check box if you prefer not to type your password each time you login to the system.

Note: "admin" password cannot be saved.



Use the **Browse...** button to change the picture of the login screen.

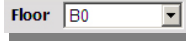
Recommended image dimensions are 500X800 pixels, JPEG or GIF formats.

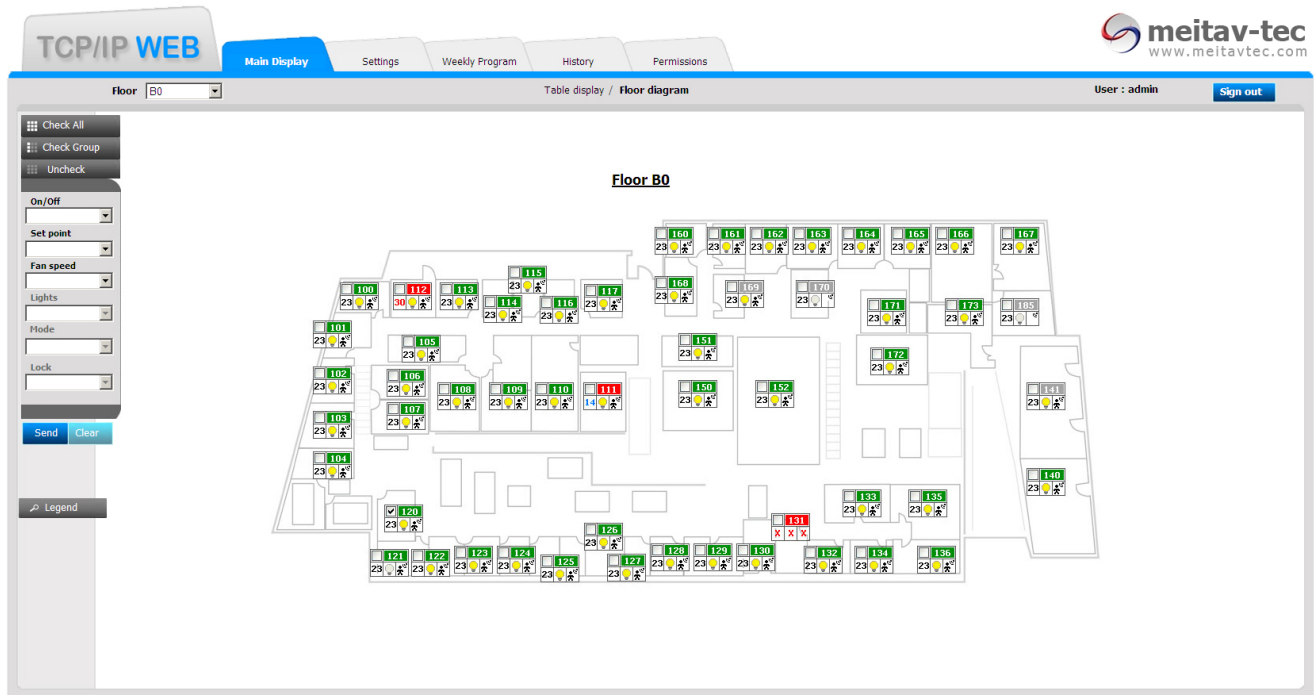
2. Main display

2.1. Main display window

Floor Diagram view

The **Floor Diagram** view shows the units in the selected floor, over the floor diagram layout.

Select the floor using the drop down list at the top bar 

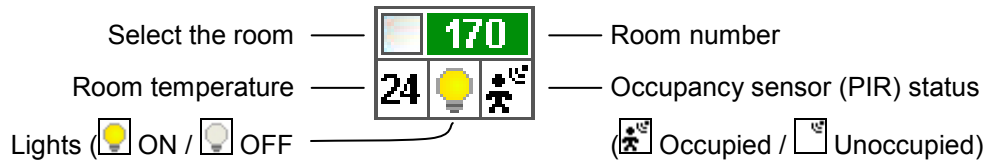


The screenshot displays the TCP/IP WEB interface for the Floor Diagram view. The top navigation bar includes 'Main Display', 'Settings', 'Weekly Program', 'History', and 'Permissions'. A 'Floor' dropdown menu is set to 'B0'. The main display area shows a floor plan with various units, each represented by a small icon with a number and status indicators. The units are arranged in a grid-like pattern across the floor plan. The interface also includes a sidebar on the left with control options such as 'Check All', 'Check Group', 'Uncheck', 'On/Off', 'Set point', 'Fan speed', 'Lights', 'Mode', and 'Lock'. The user is identified as 'admin' and a 'Sign out' button is visible in the top right corner.

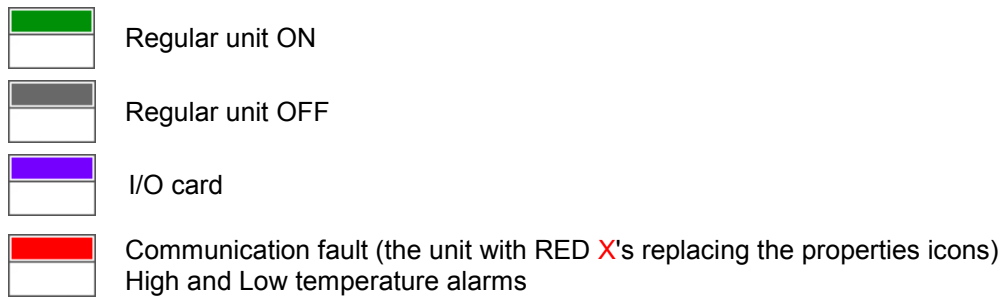
2.1.1. Units display on floor diagram layout

The units display is different for thermostats and input/output cards, and may contain different icons based on unit functionality.

Example:



The background of the header indicated unit's status:



2.1.2. Change unit's properties from the main display

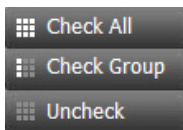
The most commonly used parameters of the units can be changed directly from the main display, using the properties bar on the left.



On **Floor Diagram** layout, select individual units (one or more) by ticking the check box on units'.



The **Check All / Check Group** and the **Uncheck** buttons on both **Floor Diagram** and **Table Display** layouts can also be used for selecting units.



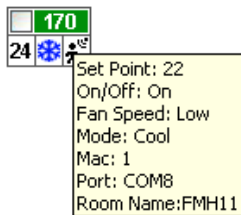
Note: While on **Floor Diagram** layout, only units from the actual displayed floor can be selected.

The **Check All** button will select all units on the displayed floor.

The **Check Group** button can be used to select groups of units, predefined on the **Setting** window.

2.1.3. Detailed unit display

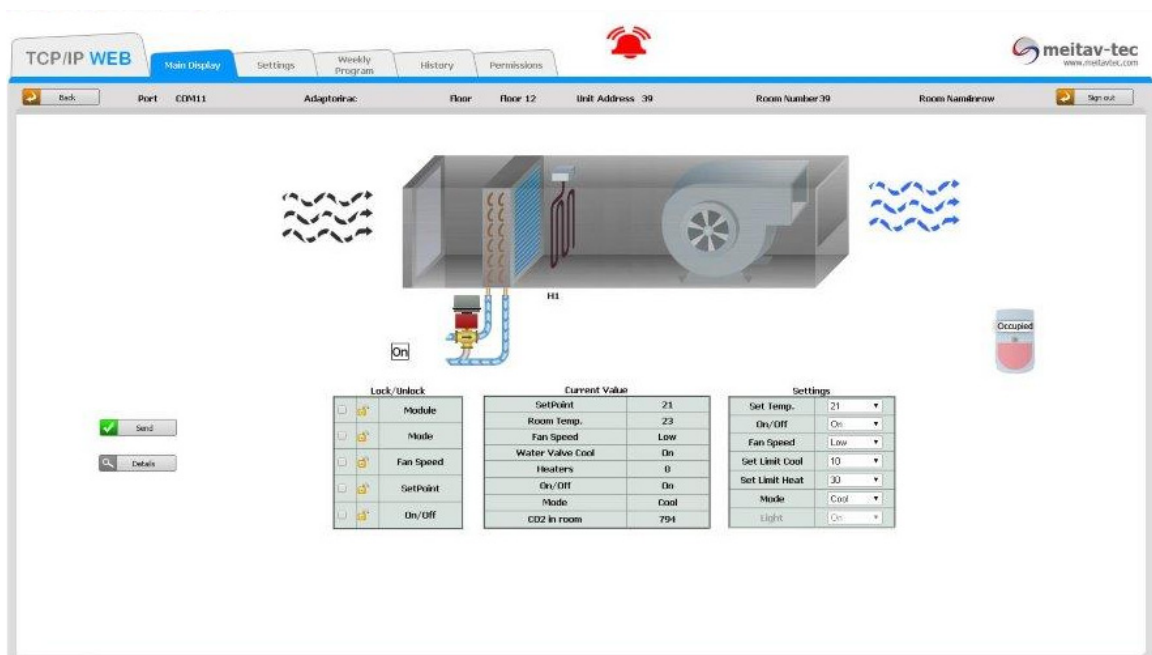
On the **Floor Diagram** layout, move the mouse cursor above a unit to open a tooltip displaying common properties of the unit.



Switch to detailed unit display, by pressing the header of the unit.

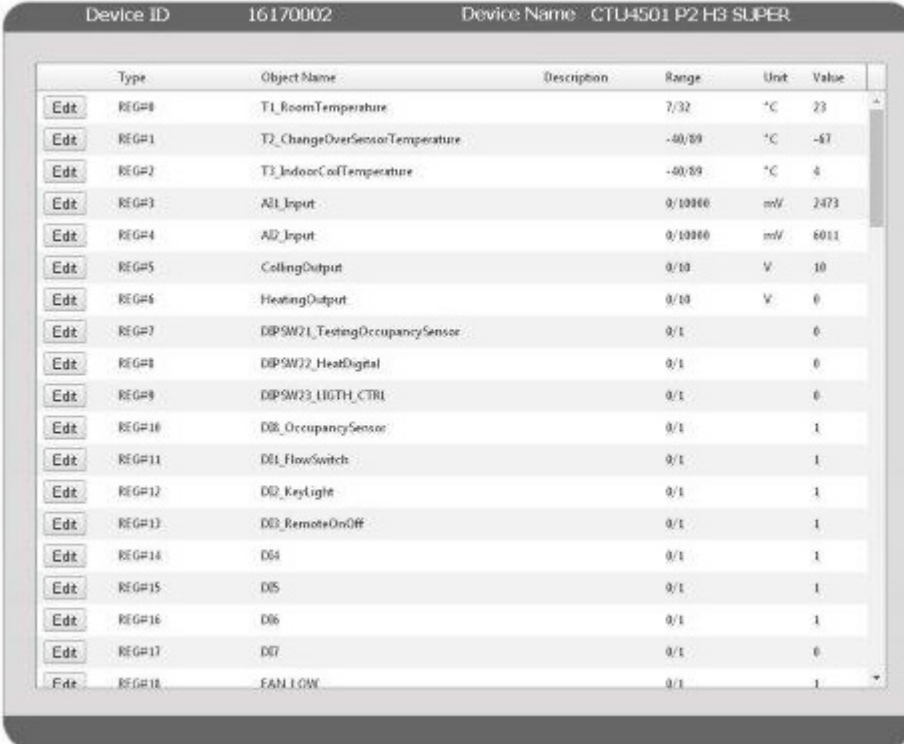
The Detailed unit display shows animated graphical interface of the unit.

Parameters are viewed on the **Current Value** panel, and can be changed through the **Settings** panel at the bottom of the display.



2.1.4. Full object list display

Press the  button to view the full object list of the device.



Type	Object Name	Description	Range	Unit	Value
<input type="button" value="Edit"/>	REG#0	T1_RoomTemperature	7/32	°C	23
<input type="button" value="Edit"/>	REG#1	T2_ChangeOverSensorTemperature	-80/89	°C	-87
<input type="button" value="Edit"/>	REG#2	T3_IndoorCoilTemperature	-80/89	°C	4
<input type="button" value="Edit"/>	REG#3	AI1_Input	0/10000	mV	2473
<input type="button" value="Edit"/>	REG#4	AI2_Input	0/10000	mV	6011
<input type="button" value="Edit"/>	REG#5	CoolingOutput	0/10	V	10
<input type="button" value="Edit"/>	REG#6	HeatingOutput	0/10	V	0
<input type="button" value="Edit"/>	REG#7	DIPSW21_TestingOccupancySensor	0/1		0
<input type="button" value="Edit"/>	REG#8	DIPSW22_HeatDigital	0/1		0
<input type="button" value="Edit"/>	REG#9	DIPSW23_LIGHT_CTRL	0/1		0
<input type="button" value="Edit"/>	REG#10	DO8_OccupancySensor	0/1		1
<input type="button" value="Edit"/>	REG#11	DI1_FlowSwitch	0/1		1
<input type="button" value="Edit"/>	REG#12	DI2_KeyLight	0/1		1
<input type="button" value="Edit"/>	REG#13	DI3_RemoteOnOff	0/1		1
<input type="button" value="Edit"/>	REG#14	DI4	0/1		1
<input type="button" value="Edit"/>	REG#15	DI5	0/1		1
<input type="button" value="Edit"/>	REG#16	DI6	0/1		1
<input type="button" value="Edit"/>	REG#17	DI7	0/1		0
<input type="button" value="Edit"/>	REG#18	FAN_LOW	0/1		1

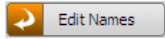
Using the full object list display, view parameters and change the writable parameters.

Note: After writing new values and pressing the "submit" button, press the "refresh" button to view the new values.

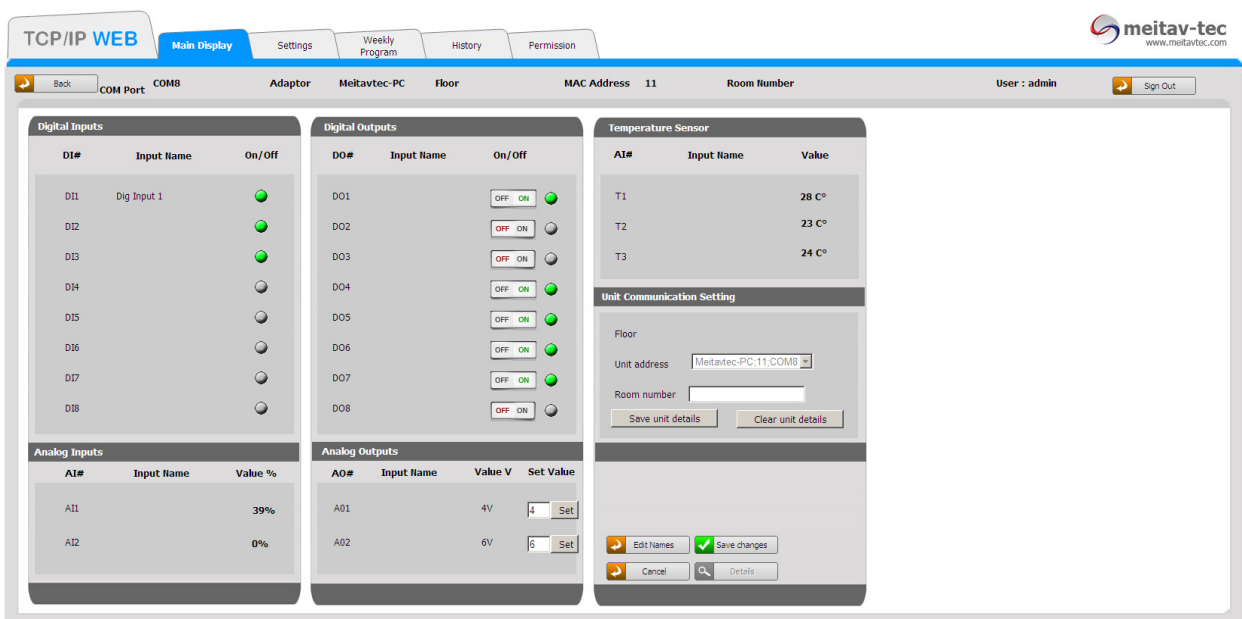
2.1.5. Detailed input/output display

On the **Floor Diagram** layout, switch to detailed I/O card display, by pressing the header of the unit.

Use the I/O card detailed display to view the status of the digital and analog inputs and to change the status of the digital and analog outputs.

Press the  button in order to enable defining the names of the inputs and outputs for better and convenient presentation.

The panels shown on display may differ due to different types of Input / Output cards.



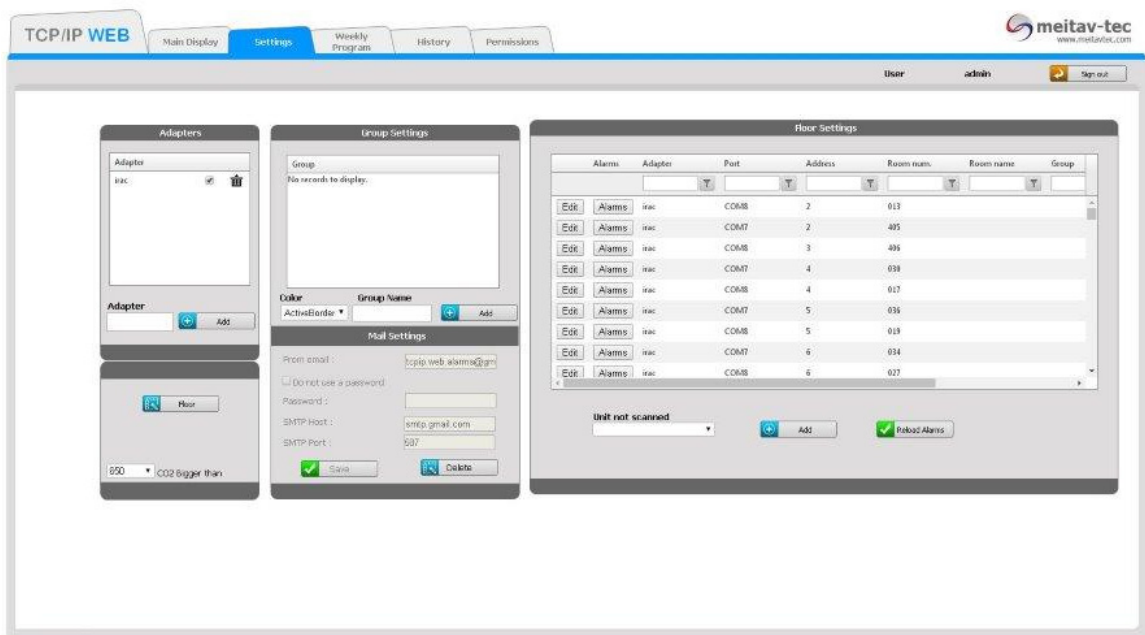
The screenshot displays the TCP/IP WEB interface for a Meitav-tec unit. The interface is organized into several sections:

- Digital Inputs:** A table with columns DI#, Input Name, and On/Off. It lists inputs DI1 through DI8, with DI1 having the name "Dig Input 1".
- Digital Outputs:** A table with columns DO#, Input Name, and On/Off. It lists outputs DO1 through DO8, each with a status indicator (OFF/ON) and a green light.
- Temperature Sensor:** A table with columns AI#, Input Name, and Value. It lists sensors T1, T2, and T3 with values of 28 C°, 23 C°, and 24 C° respectively.
- Analog Inputs:** A table with columns AI#, Input Name, and Value %. It lists inputs AI1 (39%) and AI2 (0%).
- Analog Outputs:** A table with columns AO#, Input Name, Value V, and Set Value. It lists outputs AO1 (4V) and AO2 (6V), each with a "Set" button.
- Unit Communication Setting:** A section with fields for Floor, Unit address (Meitavtec-PC.11.COM8), and Room number. It includes buttons for "Save unit details" and "Clear unit details".
- Control Buttons:** At the bottom, there are buttons for "Edit Names", "Save changes", "Cancel", and "Details".

3. Settings

3.1. Settings window

- Press the  button to open the **Settings** window.



3.1.1. Units Settings

The **Floor Settings** panel shows all units found by the scanner.

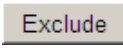
For each unit on the list, press the [Edit] button, fill in the **Room Name** and select **Group Name** from the list of groups, defined in the **Group Settings** panel (optional).

Press the  button to apply changes.

The Room Name will appear on the header of the units' icons on the main display.

Exclude units from being scanned


Each of the units listed, can be temporarily excluded from the list by pressing the

 button.


Excluded units will not be scanned repeatedly.

Use the Exclude function to reduce the run time of the scanner while debugging the system or when a unit is connected but not in use.

Units which were excluded from the list will appear in the **Unit not scanned** drop down list at the bottom of the panel.

Select a unit and press the  button to re-include it among the scanned units.

Remove disconnected units from the list

Press the  button to remove units from the list.

Use the delete function to remove units which were physically disconnected from the network, or where there was a change in the MAC Address, Port or Adapter.

Unit which was mistakenly removed from the list will reappear only after running the "full scan" procedure, which can be generated from "Table display" screen.

Units' Alarms settings

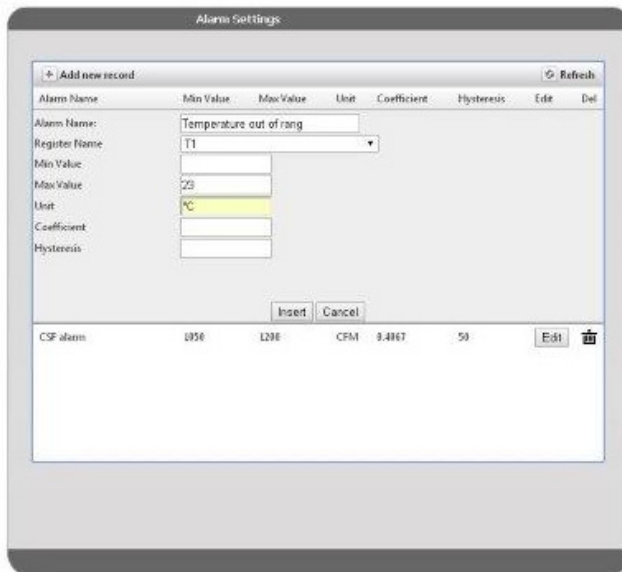
For every unit on the list, press the [Alarm] button to change its alarm settings.

Press the [Add new record] to define new alarm configuration to the selected unit.


The "Alarm Name" should be specific to the selected unit and will appear on the on-screen, email and sms alerts.

Select an existing alarm event from the list on the bottom of the screen and press [Edit] to modify its settings.

For analog values, adjust the maximum and minimum values that will trigger the alarm. For digital values (0 or 1) Set "0" as maximum value in order to trigger the alarm when the value changes to "1".



Alarm Name	Min Value	Max Value	Unit	Coefficient	Hysteresis	Edit	Del
Temperature out of rang		25	°C				


Alarm Name	Min Value	Max Value	Unit	Coefficient	Hysteresis	Edit	Del
CSF alarm	0000	0000	CFM	0.0000	50	Edit	

Important: When finished modifying the alarms, press the [Reload alarms] button.


3.1.2. Group Settings

Create unit groups to simplify the selection of units in the main display, weekly program and special events. Instead of choosing units one by one, create groups of units and handle them together.

Add new groups

- Fill in the name for the new group
- Select unique color for the group
- Press the  button to add the new group to the group list.

Remove groups

- Press the  button to remove group from the list.

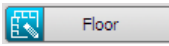
3.1.3. Adapters Settings

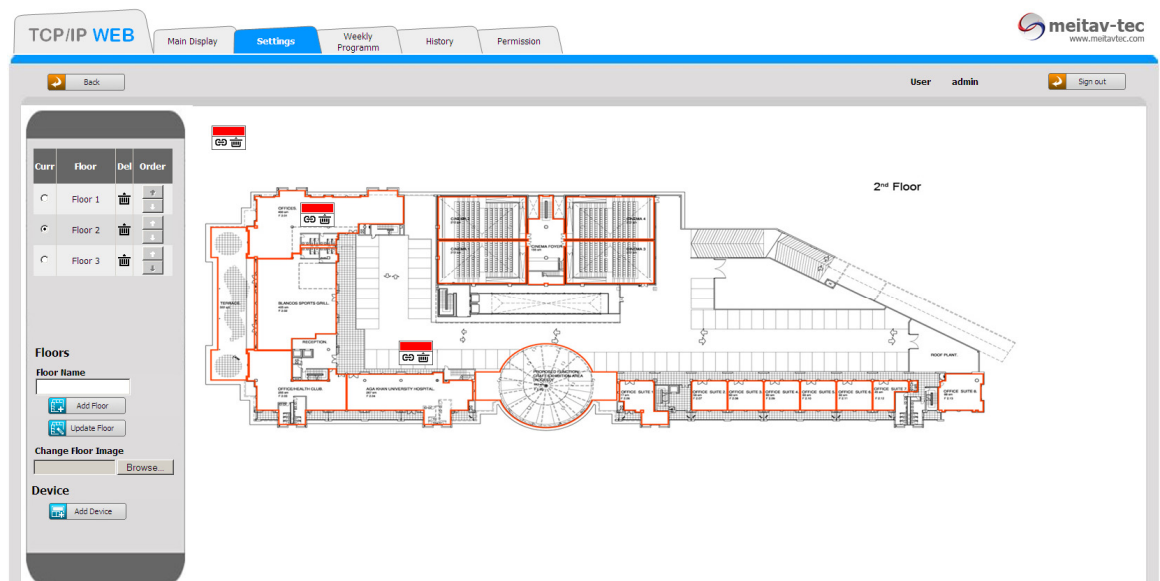
All TCP/IP adapters' names should be listed, in order to allow the scanner to scan units connected to these adapters. The names of the TCP/IP adapters are labeled on their cases.

Adapters on the list can be deleted (if not in use or changed) or temporarily disabled.

3.1.4. Floors Settings

The floors settings procedure allows adding and editing floor layouts, and placing devices dynamically on the floors picture using drag and drop method.

Press the  button to enter floors settings window.



Adding new floor

Fill in the floor name and press the  Add Floor button.

The floor will be added to the list of floors.

Updating floor name

Fill in the floor name and press the  Update Floor button.



The floor name will be updated.

Uploading and changing floor image

Select floor from the list of floors.

Press the  button and select floor picture.

Sorting floors

Use the   buttons in the floor list to move the floor to an higher or lower place in the list of floors.

Adding and Placing devices over the floor layout


Select the floor from the list and press the  Add Device button to add device to the selected floor.

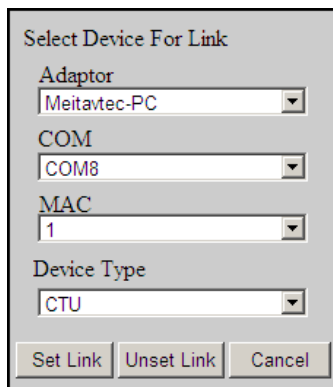
A new device icon will appear on top left of the floor layout.



Using the left mouse button press on the new device header and drag it to its place over the floor layout.

Editing device properties

Press the  button to link the device icon to an existing device in the network.



Select Device For Link


Adaptor
Meitavtec-PC

COM
COM8

MAC
1

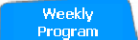
Device Type
CTU

Set Link Unset Link Cancel

Press the  button to remove the device.

4. Weekly program

4.1. Weekly program window

- Press the  button to open the weekly program window.

The system allows creating 4 different types of programs:

Standard weekly program for regular devices

The program allows modifying the system mode, fan speed and set point temperature of selected devices, at particular time periods during the day, and will automatically repeat every week.

The program also contains the option to add **Energy saving** scenario, which allows turning off the devices, starting at particular time and in a preset cycle and can be used to turn off all the devices at the end of the working day.

Special weekly program for regular devices (special event)

The special weekly unlike the standard weekly program, allows modifying the system mode, fan speed and set point temperature of selected devices, at particular date, without the weekly cycle, and is suitable for unusual dates such as holidays, when the standard weekly program should be disabled.

Standard weekly program for I/O cards


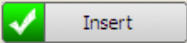
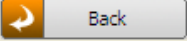
The program allows modifying the status of up to 8 digital outputs and two analog outputs, at particular time periods during the day, and will automatically repeat every week.

Special weekly program for I/O cards



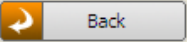
The same as the special weekly program for regular devices, the Special weekly program for I/O cards allows setting the status of the digital and analog outputs at particular date, without the weekly cycle.

4.2. Standard weekly program for regular devices


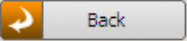
4.2.1. Adding new standard weekly program for regular devices

- At the bottom of the **Units selection** panel, fill in the name for the new weekly program.
- On the list of devices, check the devices that belong to the new weekly program and press the  button. The weekly program editing window will open.
- On the calendar, drag and right click the left mouse button to define the requested time period. For the selected period, set the desired set point, mode and fan speed and press the  button to add the event to the calendar.
- Optionally, set the **Energy saving** program which turns devices off at the end of a working day, by selecting days, start time, stop time and time interval.
- When completed, press the  button to return to the main weekly programs screen.

4.2.2. Adding/Removing devices from an existing weekly program

- Select one of the existing weekly programs by pressing the  button – the selected program and the devices which belong to it will be highlighted.
- Add or remove devices by checking or unchecking the desired lines and press the  button next to the selected weekly program. The weekly program editing window will open.
- Press the  button to return to the main weekly programs screen.

4.2.3. Editing an existing weekly program

- Press the  button next to the program you wish to edit. The weekly program editing window will open.
- Edit the program.
- Press the  button to return to the main weekly programs screen.

4.3. Special weekly program for regular devices (special event)

The process of adding a new special weekly program, selecting devices and entering the editing program is similar to the standard weekly program.

In the special event program editing window, select particular date on the calendar on the left and for that actual date define the program events.

Note that unlike the standard weekly program events, these events will not repeat weekly.

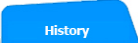
April 2014						
Su	Mo	Tu	We	Th	Fr	Sa
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3
4	5	6	7	8	9	10

5. History

5.1. History window

Types of reports

There exist 5 types of reports:

- Costs reports and graphs - Detailed reports for unit's consumption over time.
- History reports – Detailed reports showing all changes to the units.
- Graphs – Visual printable graphs displaying the behavior of selected device parameters (i.e. On/Off status, Mode, Set point and Room temperature etc.).
- Press the  button to open the history window.

History table

- Select one or more device from the list of devices on the left, parameters you wish to view and the range of dates and press the "View history" button.
- The history table can be sorted by clicking on the column headings.
- Use the export buttons to export the table to either PDF or Excel formats.
- Press the "Back" button to return to main history window.

System behavior graphs

- In order to see a graph describing the behavior of one of the outputs, select one device and one parameter and press the "view graph" button.
- Use the export buttons to export the table to either PDF or Excel formats.
- Press the "Back" button to return to main history window.

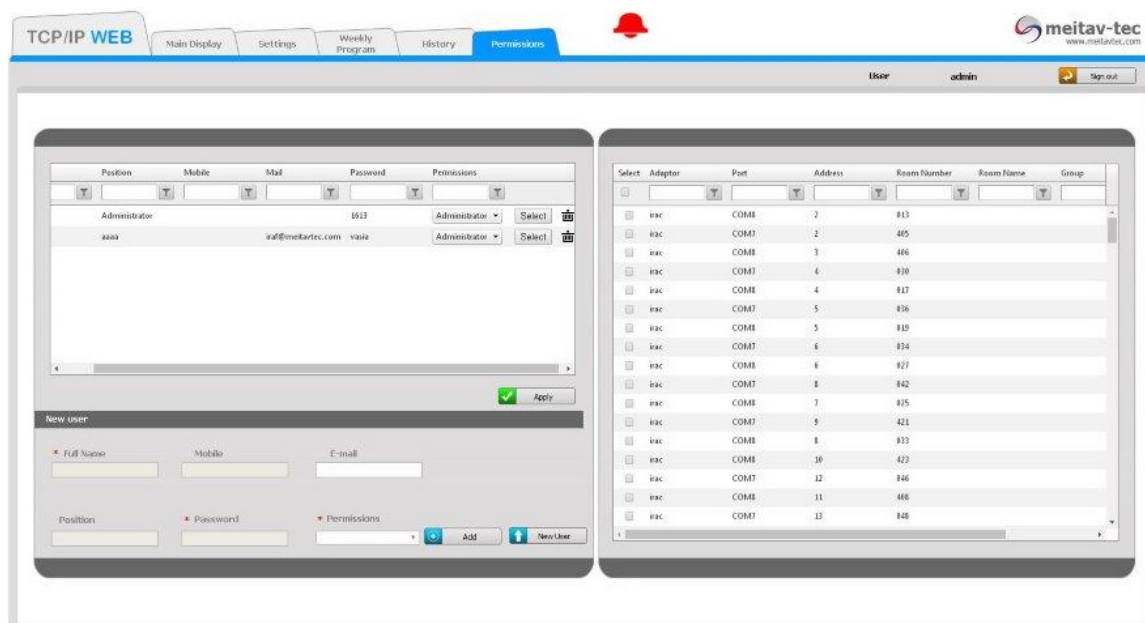
6. Users and Permissions

6.1. Permissions window

Types of permissions

There exist 3 types of permissions:

- Administrator – permitted to view/change any parameter of any unit in the system and to add/remove users and grant permissions.
- Manager – permitted to view/change any parameter of selected units in the system but cannot add users or grant permissions to other users.
- End user – permitted only to view/change the parameters of selected units.



Add new user

Press the [New User] button to open the new user fields for editing.

Fill in the user name and details.

The E-mail and Mobile phone will be used for alarm notifications.

When finished, press the [Add] button.

Define units for user

All units are automatically assigned for "Administrators" and "Managers".

For "Users", on the top left pane select the row of one of the users.

From the right pane, check the units to be seen by the selected user.


7. Alarms

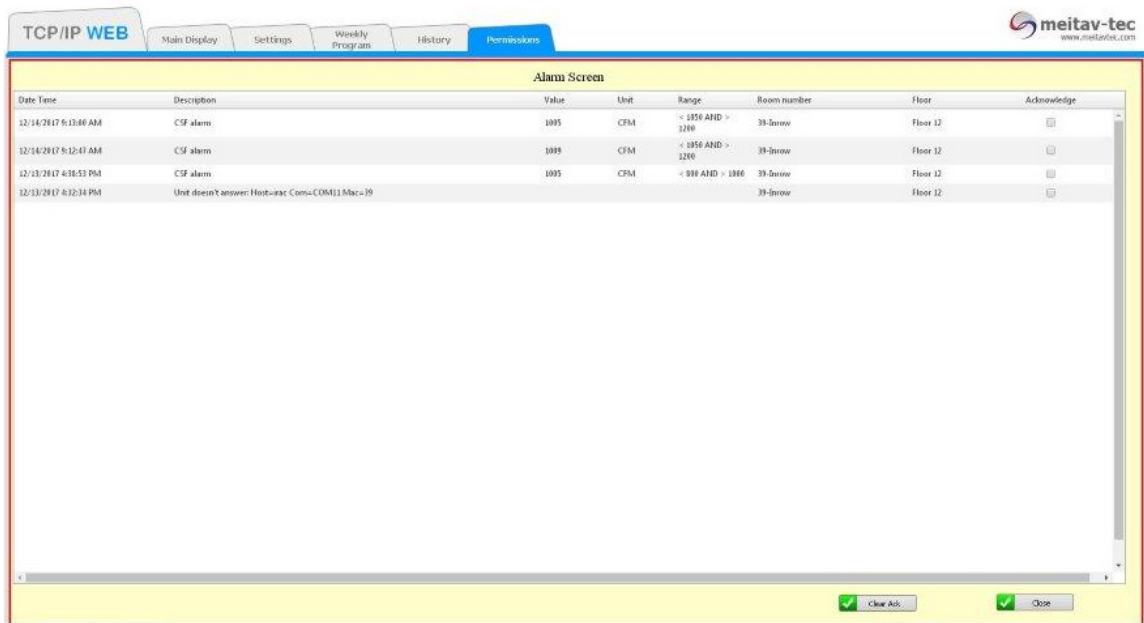
Alarms are set pre unit through the settings window.

When alarms are triggered, all the users with E-mail and/or Phone number defined on permissions window will receive a message.

The Alarms popup screen will appear on display with detailed information about active alarms.

Check the [Acknowledge] checkbox to discard the alarm – this alarm will appear on the alarms history table.

When the alarms screen is closed, and not all the alarms are acknowledged, a red alarm indication  will appear on the main screen.



The screenshot shows the 'Alarm Screen' interface. At the top, there are navigation tabs: 'TCP/IP WEB', 'Main Display', 'Settings', 'Weekly Program', 'History', and 'Permissions'. The 'Alarm Screen' title is centered at the top of the main area. Below the title is a table with the following data:

Date Time	Description	Value	Unit	Range	Room number	Floor	Acknowledge
12/14/2017 8:13:06 AM	CSF alarm	1095	CFM	< 1950 AND > 2100	39-Inrow	Floor 12	<input type="checkbox"/>
12/14/2017 8:12:47 AM	CSF alarm	1099	CFM	< 1850 AND > 2200	39-Inrow	Floor 12	<input type="checkbox"/>
12/13/2017 4:38:53 PM	CSF alarm	1095	CFM	< 930 AND > 1000	39-Inrow	Floor 12	<input type="checkbox"/>
12/13/2017 4:32:34 PM	Unit doesn't answer Host-nac Com-COM11 Maca-19				39-Inrow	Floor 12	<input type="checkbox"/>

At the bottom of the screen, there are two buttons: 'Clear All' and 'Close', both with green checkmarks next to them.

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