

CEDIA®  
MEMBER



# VFACE

Technical manual

Version BETA

VFC02-2019xxxx

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[www.astrum.eu/vface.html](http://www.astrum.eu/vface.html)

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## VFACE BASIC



## VFACE TOUCH

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## GENERAL INFORMATION

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This manual will include all information and techniques about product, for installing and configuration. We reserve the right to make changes to the manual without prior notification.

You are allowed to make a single copy for backup purpose.

Please read and be familiar with instruction before getting started and keep the manual for later use.

You are always welcome to inform use of errors or make suggestions for improving the program.

Manual and the Software are protected by copyright. All rights are reserved.

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## Symbols and Notifications

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Caution!

Important points need to take into account while configuration.



Hint

Additional notes and information.

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**“.....”** Double quotes: Functions or step which user must perform.

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***Italic*** Italic: Description for objects and pictures.

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**BOLD** Bold: Illustrates names of buttons, menus or elements.

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## Warning & Safety Instructions

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- Installation and configuration should be done by only qualified personnel.
- You can take support from your dealer or technical representative in your region for installing a device.
- All electrical execution must be performed by a technician and with accordance of the country legislation following the instructions in the Technical Manual.
- Make sure that all cables are secure, that recommended cables are used and that no external forces act on Terminal connections or cables.
- VFace mentioned for indoor use only. Disconnect power and all bus communication cable from VFACE while installation and mounting.
- Do not apply **AC power** to the VFACE BASIC / VFACE TOUCH.
- Based on modular structure different add-on modules are manufactured for each brand, do not try to use it for other brands. This may cause damage to add-on module and device itself.

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## Technical specification

### Hardware Information's

Power Supply:	12 VDC
Display:	Basic – None
	Touch – 7” with capacitive touchscreen
Standard Interface:	VRF port (1x)
	LAN RJ45 (1x) GbE Interface
	USB 2.0 (1x)
	Digital GPIO (2x) Input
Optional Interface:	Additional VRF port (1x) any brand
	RS232 / RS485 (1x) two-in-one module
	KNX (1x) TP
Reset Button:	Hardware button on the back side of the case
Housing Type:	Aluminum colored black
	Protection grade IP 20
Working Humidity:	5% - 90% at 25°C
Working Temperature:	-10°C - +35°C

## Software Information's

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Standard Technologies:	Built-in web server Internet Upgradable Customizable web interface
Connectivity:	ASCII TCP/IP (Custom protocol) Modbus TCP Modbus RTU RS232 / RS485 (Optional) KNX (Optional) Web server implementation (via SDK)
VRF Control:	Full indoor unit control Monitor indoor and Outdoor units System diagnostic
Controllable elements:	On/Off status Set temperature Work mode Room temperature read only Fan speed Swing and diagnostic (regarding brand) Outdoor data read only (regarding brand)
Web UI Functionality:	Name and group indoor / outdoor units Define user rights Scheduling indoors Record indoor activity logs (optional) System logs for diagnostic
Timer / Scheduling:	Indoor full control Weekly or one-time commands Lock indoor units Time interval commands
User Interface:	Web/Html5 (All operating systems) Mobile app support (iOS / Android)
Browser Compatibility:	Chrome / Firefox / Safari
Mobile App:	Apple iOS / Google Android
Client Amount:	Unlimited clients (up to 16 parallel connections)

Setup and Maintenance

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Configuration Interface:	Online / Offline through web interface
	Back / restore of the project
	Search units
	Unit list
	Select BMS / HA connectivity
Setup and Maintenance:	Network
	Date / Time
	Language support (soon)
	Selection of graphical elements
	Software Update
	Software License
Other Functions:	Emulator (Simulate VRF System)
	Watchdog (Protect system against crash)
	Rotate screen
Inputs:	Emergency Input (Closes all VRF indoor units)
	Search inputs (Start to scan VRF Bus)

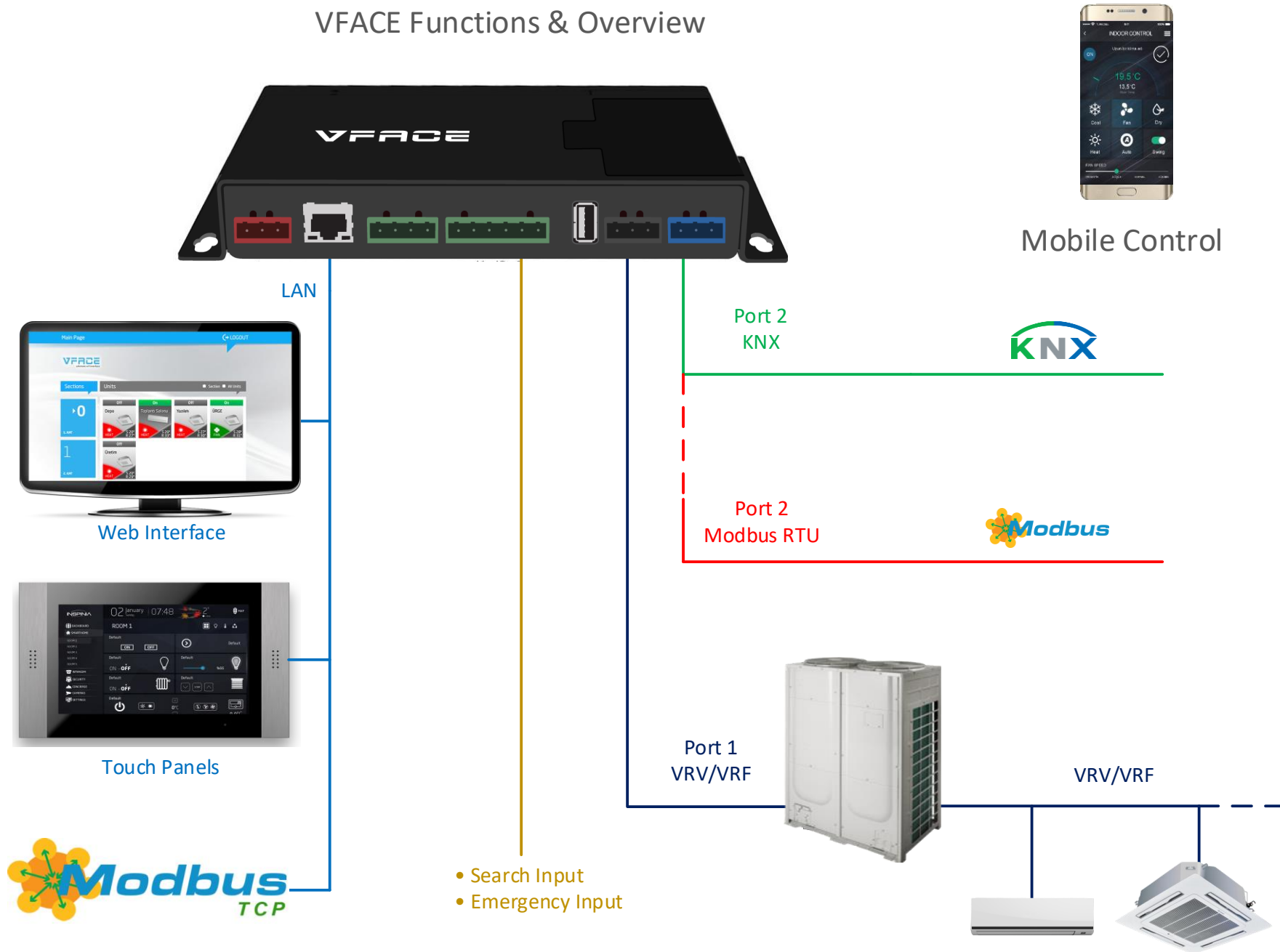


## Supported Brands

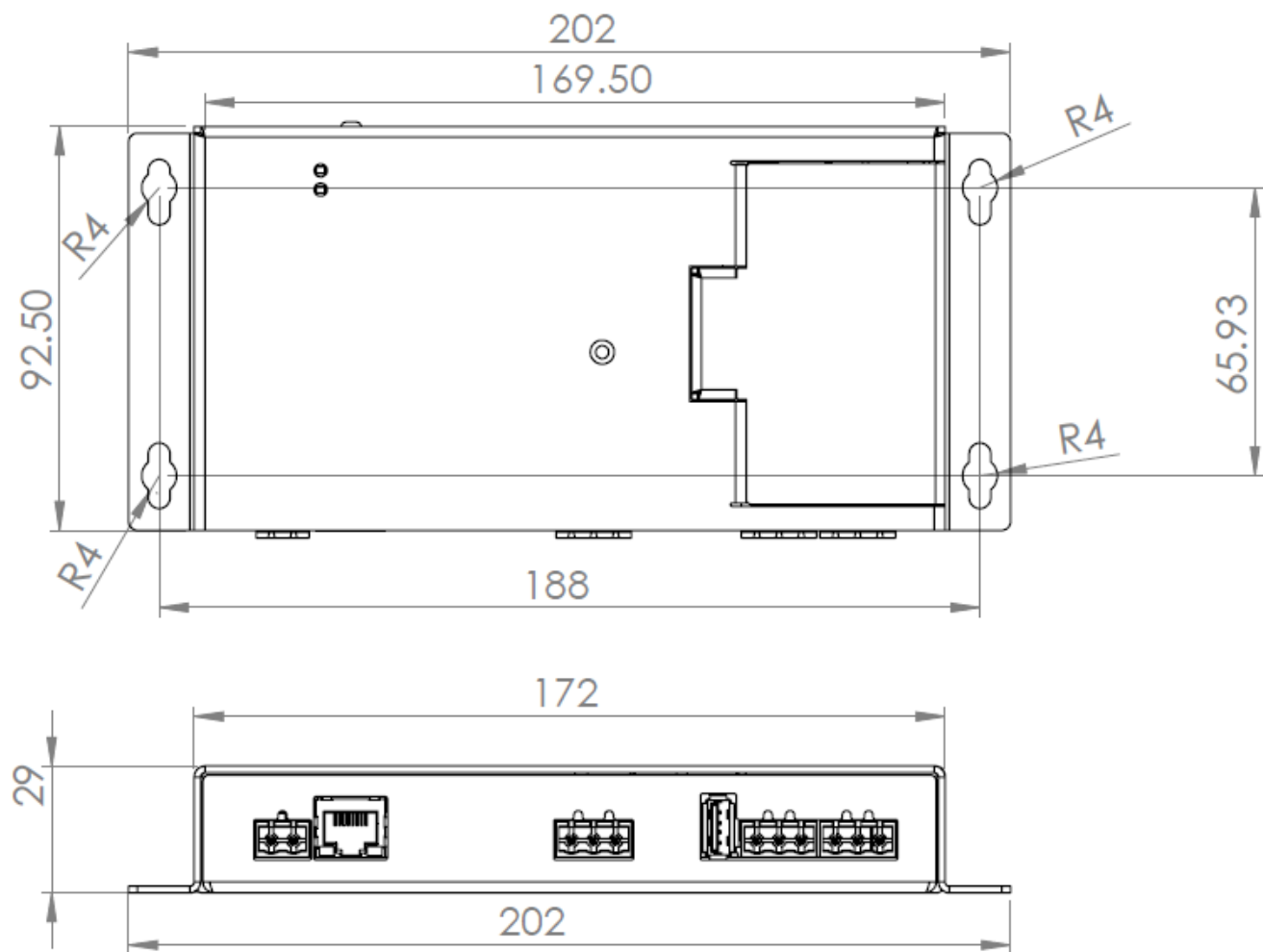
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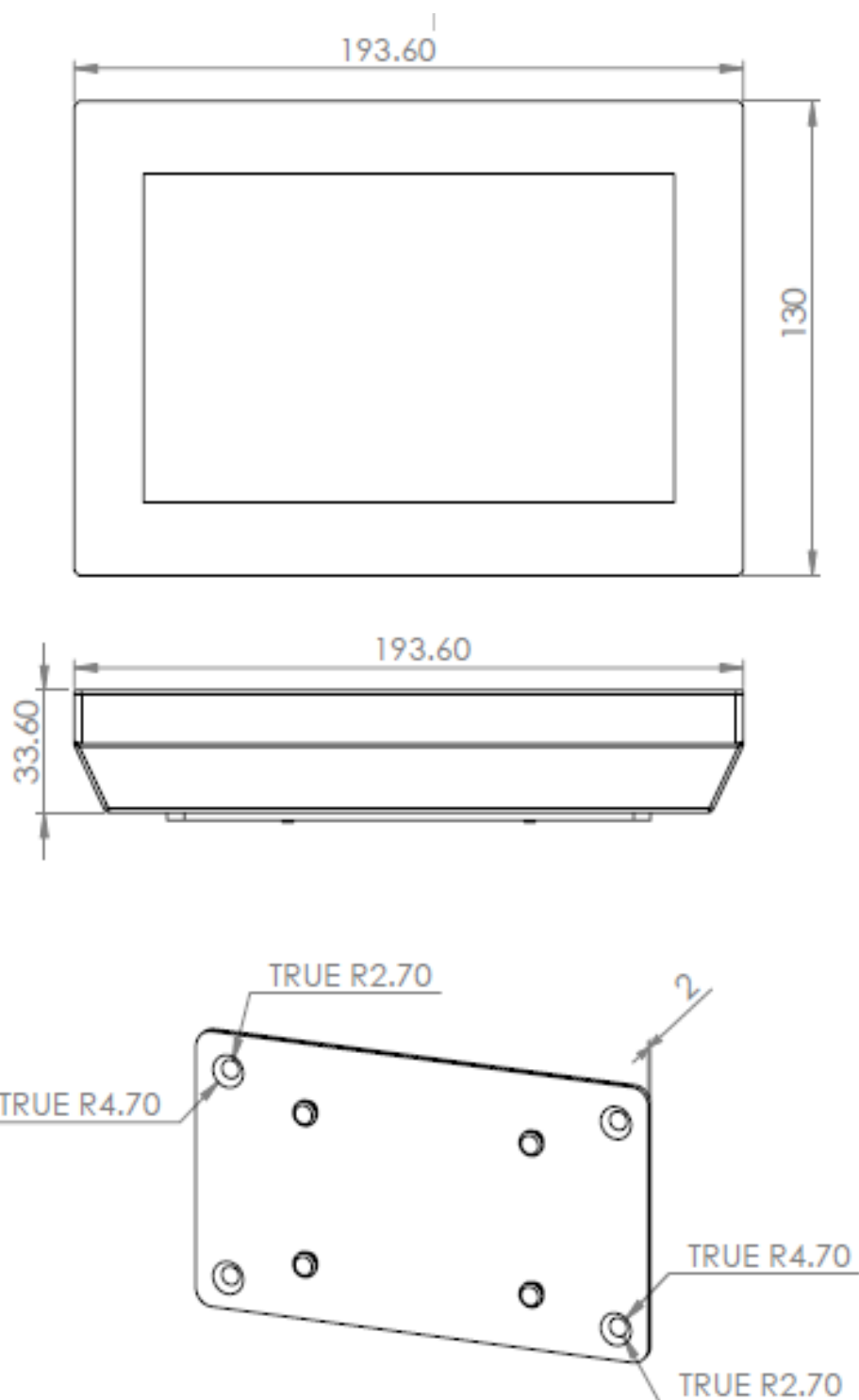
## VFACE Functions & Overview



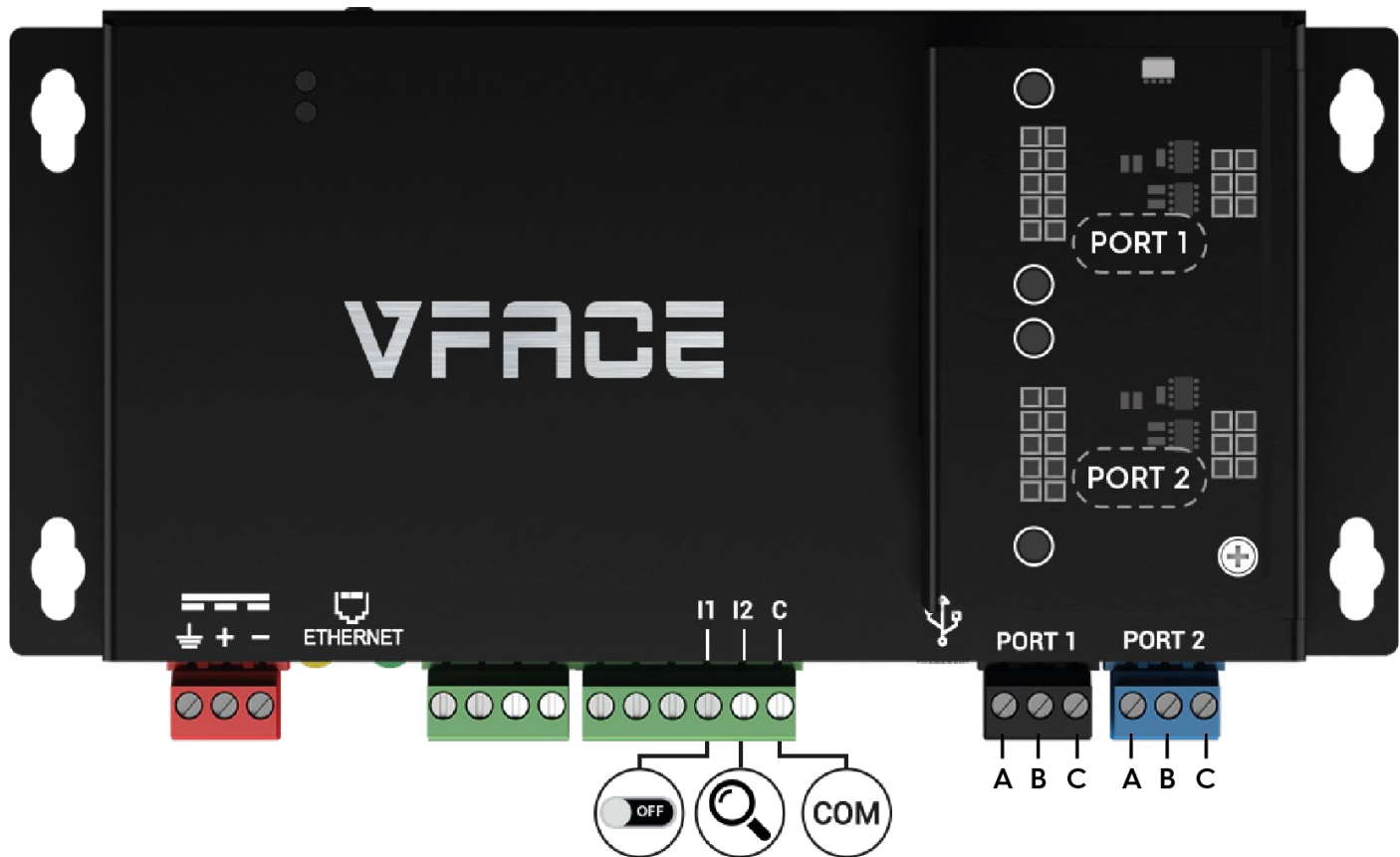
Dimension of VFACE BASIC



## Dimension of VFACE TOUCH



## Connections

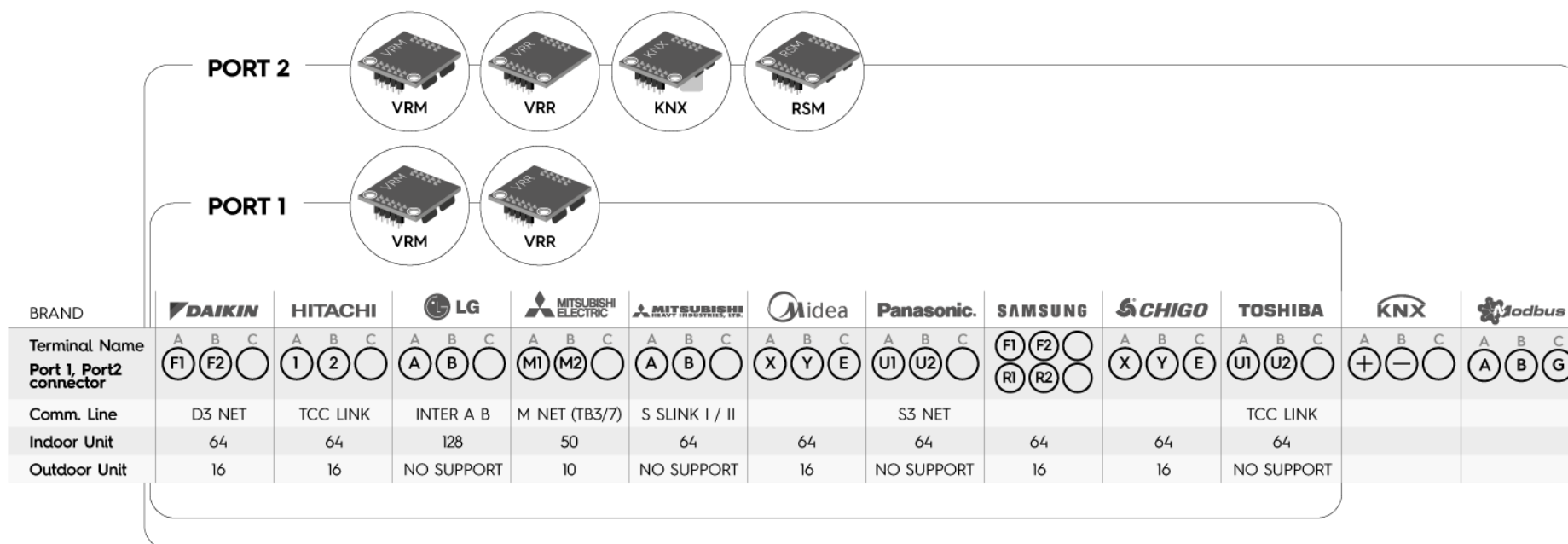


- Power Supply:** 12 VDC
- Ethernet Port:** 10M/100M/1000M (IEEE 802.3)
- Inputs:**
- Input 1 (I1)** Turn OFF all Indoor units. (Emergency input)
  - Input 2 (I2)** Search Indoor units.
- Port 1:** Add-on port for VRF module ONLY.
- Port 2:** Add-on port for BMS(Modbus/KNX) or VRF modules.

By plugging specific add-on modules to those ports various combination of connectivity can be provided. Please check the table below.

PORT 1	PORT 2	OPERATION MODE
VRV/VRF	-	64 Indoor Control + Modbus TCP/IP
VRV/VRF	Modbus	64 Indoor Control + Modbus RTU
VRV/VRF	KNX	64 Indoor Control + KNX + Modbus TCP/IP
VRV/VRF	VRV/VRF	128 Indoor Control + Modbus TCP/IP

Each brand of HVAC has different communication terminals on outdoor unit. Please check below table for terminals connections.



## Introduction

VFACE is a standalone interface for VRV/VRF systems which also let you easily integrate to Home Automation and Building Management Systems. VFACE supports various brands and provides end-users with full control of all indoor units enabling them with access to VRV/VRF's various functionalities including diagnostic.

VFACE is a plug and play device when installing device HVAC installers will not need to worry anymore about the complexity involved in various gateways and with 7" VFACE Touch Panel no need computer to setup.

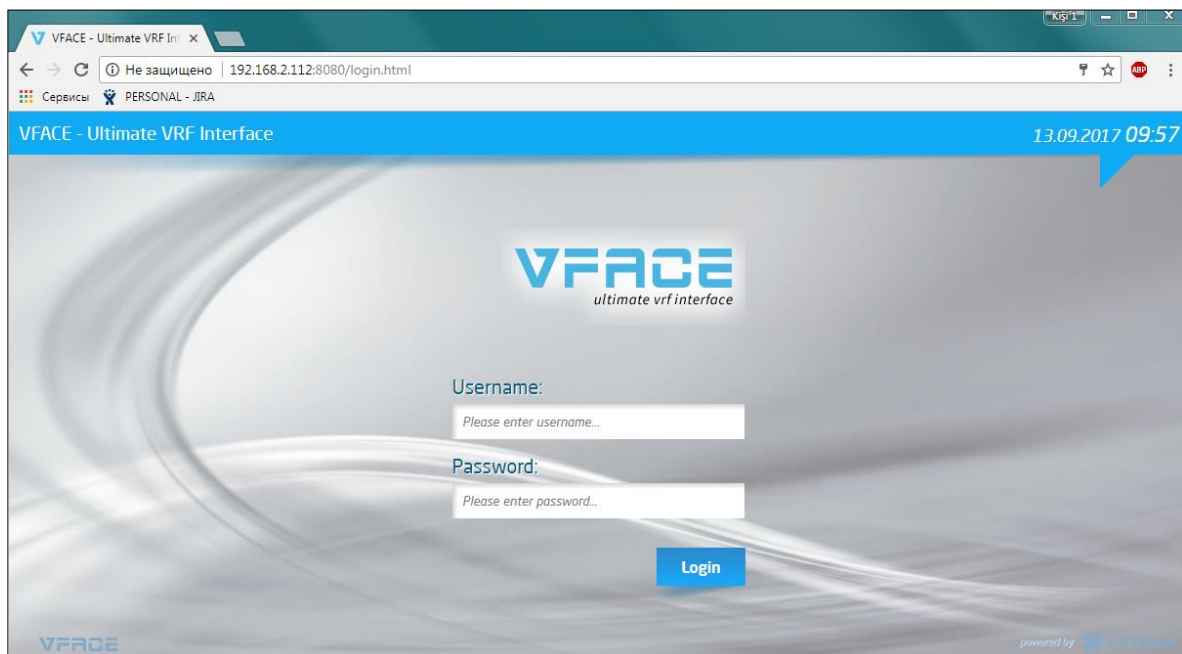
VFACE has an embedded web server which hosts a responsive web page that means various connectivity options such as PC, Tablet or Mobile and easy configuration via internet. VFACE also enables VRF installers to access all parameters required for diagnostic and service purposes.

## Access to the System



Access to the system realizes through entering individual IP Address and Port number 8080 of the device to the Web Browser.

- Default IP Address of device is **192.168.2.100** and Default Port number is **8080**.
- From VFACE Touch you can obtain IP Address through "Setting/Parameters/Network" page.
- In the case when DHCP server is set. You will need to find out which IP Address did device take through Scanning the Network. After finding IP address enter it to Browser.
- Recommended web browsers: Google Chrome / Safari / Firefox.



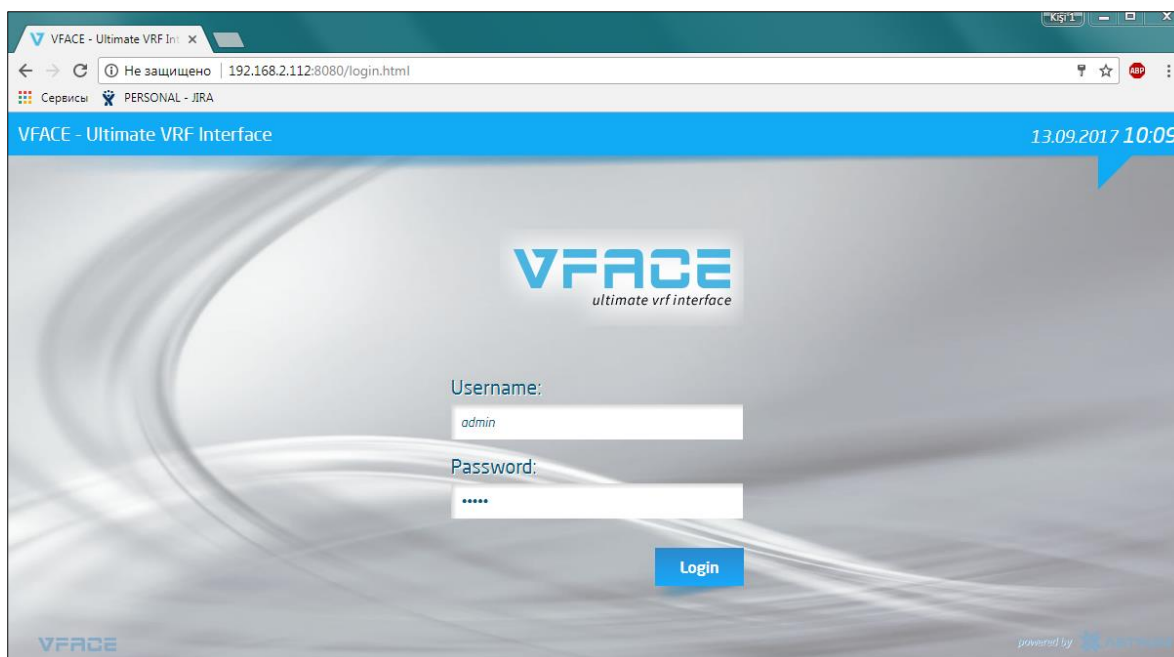
View from browser: Login page

Types of the access:

- **Local access:** IP address of device inside local network is required.
- **Remote access:** You will need to redirect Local IP Address of the VFCAE to the public IP Address, through port forwarding.

Authorization to the system originates through two types of sessions:

Username	Password	Description
admin	admin	Intended for integrators, has unlimited authorization to settings.
user	user	Intended for end-use can monitor and control.
guest	guest	Intended for end-use can monitor and control.



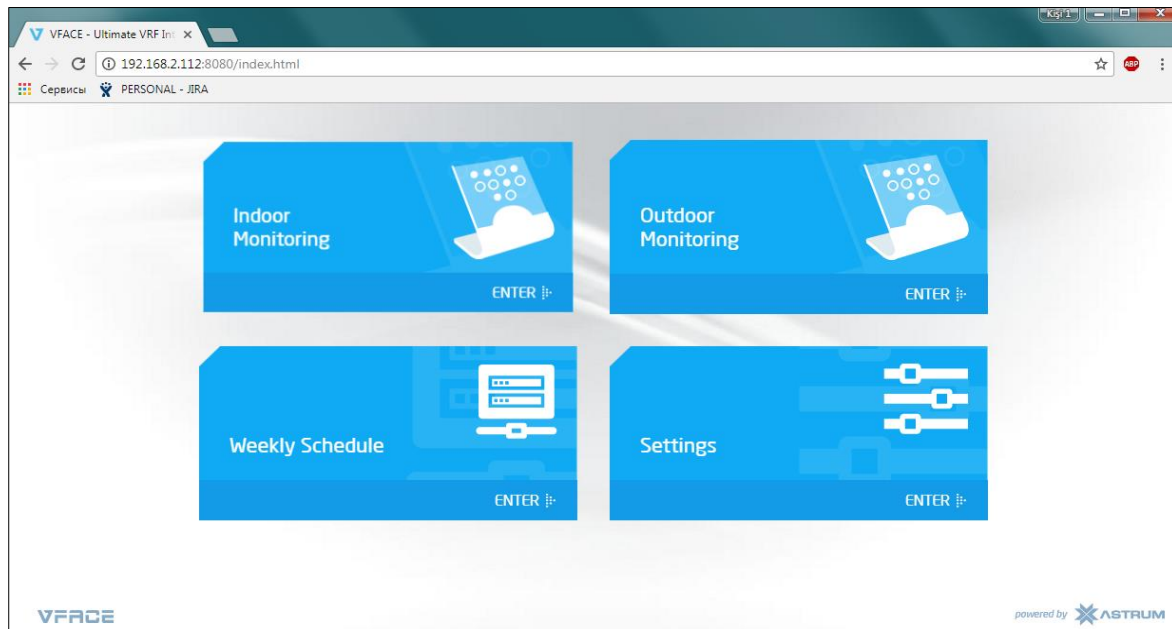
View from browser: Login page



Web Interface of both VFACE BASIC and VFACE TOUCH are identical.

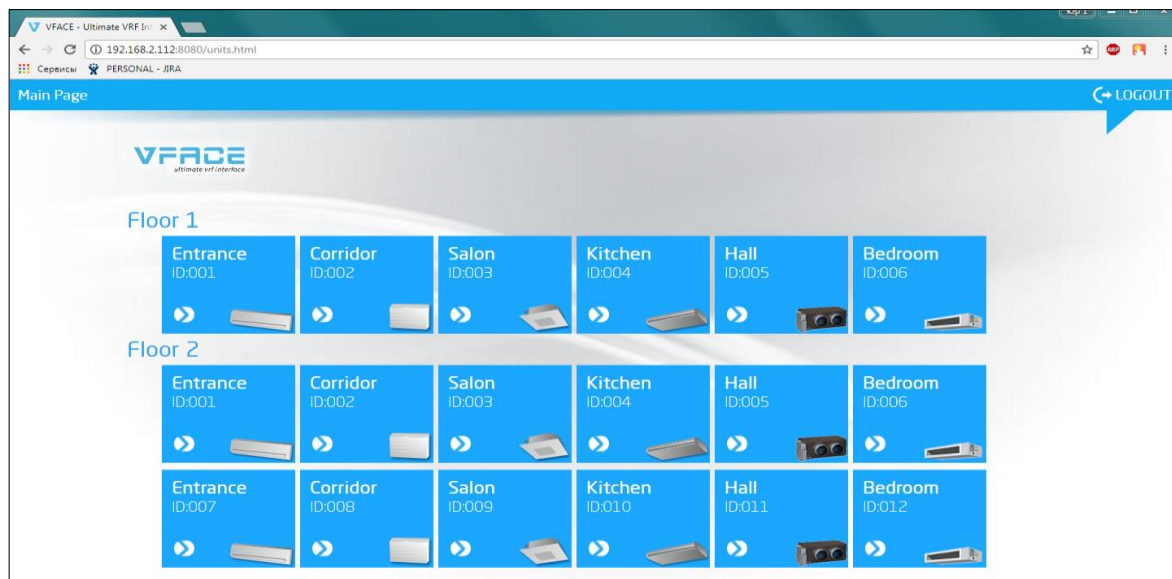


## Main Page



View from browser: Main page of Admin client

- **Indoor Monitoring:** Full control and monitoring of all VRV/VRF indoor units.
- **Outdoor Monitoring:** Diagnostic information of the VRV/VRF outdoor units.
- **Weekly Schedule:** Creating schedules, rules for each indoor unit or for group, depending on time and season.
- **Settings:** Includes all parameters and configuration of device.



View from browser: Main page of User client



Authorization of User and Guest are limited, they can only monitor and control unit, but can't make a change.

## Indoor Monitoring

Provide monitoring and control of all Visible Indoor units.



View from browser: Indoor Monitoring

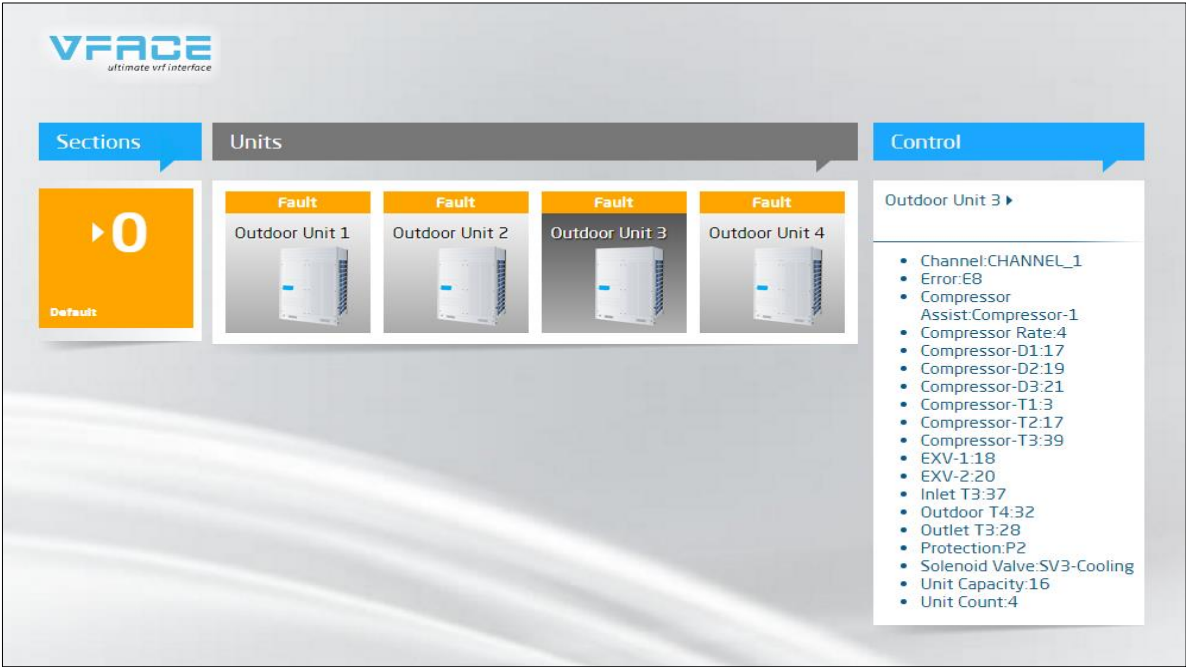
- **Sections:** Indoor units can be divided into sections. Sections can be floor or parts of building according to the project.
- **All units:** Apply configuration to all units in whole sections.
- **Section:** Apply configuration to all units inside current section.
- **Control:**
  - On/Off:** Enable or Disables the indoor unit.
  - Mode:** Select the mode of indoor unit.
  - Fan Speed:** Select the intensity of Fan speed.
  - Swing:** Select the swing state.
  - Set Temperature:** You can set the temperature by clicking the (+) and (-) buttons.
- **APPLY:** Save and apply each configuration by clicking **Apply** button.
- **Info bar:** Diagnostic information about indoor unit.



Same procedure can be applied on other sections with the same way, configuration and managing Sections and Units will be explained in upcoming chapters of manual.

Outdoor Monitoring

This section provides diagnostic information about the Outdoor units of VRV/VRF systems. Following information is just for monitoring, it's not allowed to make any changes.



View from browser: Outdoor Monitoring

By the clicking Outdoor Unit on the Control bar you will be able to see all information about unit.

## Settings

View from browser: Settings page

### Port-1 Parameters

Port Type: Select type of protocol (VRF / Modbus / KNX)

Select Brand: Select brand of VRV/VRF from available list

### Port-2 Parameters

Port Type: Choose type of protocol (VRF / Modbus / KNX)

If you select Modbus as a channel type you will have set Baud rate menu to set.



- Channel- 1 or Port 1 is suggested to use for VRF Protocol. Each VRV/VRF Brand has it's specified add-on module. Do not try to use it for other brands. Do not change the DIP switch from original states.

### Network Settings

Please set the Network configuration according to your system, don't miss any parts or leave it empty.

In a case that you set DHCP, device will take all network configuration from router and finding your device through scanning network will take a time. For that reason, Manual configuration of network is suggested.

Time:	12:05
Date:	18/09/2017
Time Zone:	Africa/Addis_Ababa
<input type="checkbox"/> Auto Time Update <input type="checkbox"/> Auto Time Zone	
Modbus TCP Port:	1502
Modbus Address:	1

View from browser: Settings page

### • Time and Date Settings

Date and Time can be set automatically or manual from following tabs.

### • Modbus settings

Port and slave address configuration for Modbus TCP connection. Default states of them you can see it on picture above.

Unit List:	CHANNEL_1_001 INDOOR WALL CHANNEL_1_002 INDOOR FLOOR CHANNEL_1_003 INDOOR CASSETTE4 CHANNEL_1_004 INDOOR CEILING CHANNEL_1_005 INDOOR DX CHANNEL_1_006 INDOOR DRAIN CHANNEL_1_007 INDOOR WALL CHANNEL_1_008 INDOOR FLOOR CHANNEL_1_009 INDOOR CASSETTE4 CHANNEL_1_010 INDOOR CEILING CHANNEL_1_011 INDOOR DX CHANNEL_1_012 INDOOR DRAIN
<input type="button" value="Search Units"/>	
Emulator:	Yes
Watchdog:	No
Emergency Input:	No
Search Input:	No

View from browser: Settings page

- **Search Units**

While wiring connection with Outdoor unit and VFACE is accomplished you can proceed to search. By clicking search you will be able to discover all indoor units which are connected to your system.

According to brands searching time may last up to 2 minutes.



Making a new search will delete all your present settings.

- **Emulation**

Simulation which creates virtual outdoor and indoor Units. The purpose of emulation is to create a platform for training, testing and introducing device. While Emulation is set all Units will be virtual and they have no any relation with real system.

- **Watchdog**

During system crash or fault device will be restarted automatically.

- **Emergency Input**

Digital input “I1” is for emergency. It can be connected to the Security systems of building. During triggering with Common “C” system will turn off all units.

- **Search Input**

Digital input “I2” is for Searching all Indoor/Outdoor units. After connecting all wiring part, you can trigger “I2” as a result system will search all units inside the system and will appear on “Unit list”.

Version:	v5.0.0	UPDATE
License Validation Status:	OK	
Knx Enable:	Active	
ModBus Enable:	Active	
Outdoor Enable:	Active	
Unit Count:	16	
Serial Number:	05c344ac57504848806652721651660e	
Activation Key:	63DE70-11DF4A-89325C-701AB6	
License Key:	nOk2uQpE/nfEh7fPyayf71PdcVh62nUvP4b2e 1upuz20iivCzMKWsAwP3ABhBXaD1FvDmNit ue4UiYejQ5c5tR3xXjbVBzDhcjOrdufAaAwIP0i e+6Wg3Y+eGYafSUcD0p+6Q93h71DMDX22Y PIRKpYApT+yGeHmWsMtmFAPuDEgeylubGww ejtbnbTb1WSuUnP9X2+nKlhB5J27+FXWtvSyx 8OYRDInh087IBo0R0g=	
		APPLY

View from browser: Settings page

- **Version**

Displays the software version of the device. In a case when new version available you can Update it with **UPDATE** button.

- **License**

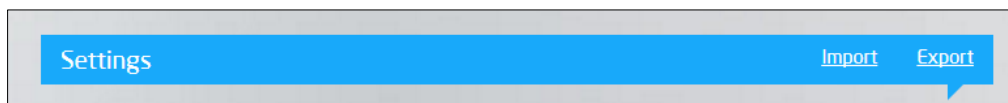
This section is generated during manufacturing and in an accordance of customer order. By contacting your dealer, you can upgrade your licenses.

**License Key:** Unique License Key of the device.

- **APPLY**

While configuring system you need always to save the changes by clicking **APPLY** button, otherwise your changes won't be saved and will remain the same.

- **Import / Export**



**Import:** If you want to upload the settings which is extracted from other device you can use import option and upload existed settings with .json file which you have.

**Export:** Creates and saves your current settings as .json file.



While importing different settings you need to take your own device backup. For that, firstly Export your current settings and save it, after you can import another setting.

## User settings

**VFACE**  
ultimate vrf interface

**Users**

Settings  
Users  
Define Units  
Weekly Schedule  
KNX Addresses  
System Log

Add User

Username: Password:

Admin admin .....  
User user .....  
User username password

+ -  
+ -

APPLY

② Press "add user" and select user type from left combobox, define a user name and password. After you will need to define accessible units to that user. Press "+" and select which Indoor units you wish that user can control and monitor. If user type is Admin, you don't need any Indoor unit definition. Admin can access all Indoor and outdoor units.

View from browser: User Settings

### Add User

- **Add User:** You can add new user and from account type, you can select the role of user as **admin, use, guest**.

User Type	Password	Description
admin	admin (Default)	System Administration: Can monitor, control and configure the system. (Default)
user	***	Intended for end-user can monitor and control.
guest	***	Intended for end-user can monitor and control.

After selecting the account type enter "name" and "password" of new user and click apply button.

### -

- **Delete User:** Permanently deletes the user from the system.

### +

- **Select Sections:** Select the sections which then can be controlled by the new user.

Select Section X

☐ Default ☒ Floor 1 ☐ Floor 2

### APPLY

- **Apply:** Save the configurations.



## Define Units

View from browser: Define Units

- **Add a section:** Define name to new section and click . If you want to delete, select the section and click .
- **Search:** Find the unit more easier by entering name of unit.
- **Add Unit:** Indoor unit can be added by entering its Unit ID and clicking apply button.

View from browser: Define Units/Add Unit

- **Active:** Makes visible on Indoor Monitoring page.
- **Delete:** Deletes the selected unit permanently.

- **Unit Settings:** By clicking ID of the indoor unit you'll be able to make configuration.

Select Section

Unit ID

Unit Name

Unit Type

CASSETTE 4

Section Name

Port

PORT-1

Apply

View from browser: Define Units/Add Unit







**Unit ID:** Set the unique ID of the unit.

**Unit Name:** Define name to the Unit.

**Section Name:** Select in which section you want to add following unit.

**Port:** Select to which Port unit is connected.

**Unit Types:** Select the type of Indoor Unit from table below.

CASSETTE	CEILING	FLOOR	WALL	DUCK	DX
					

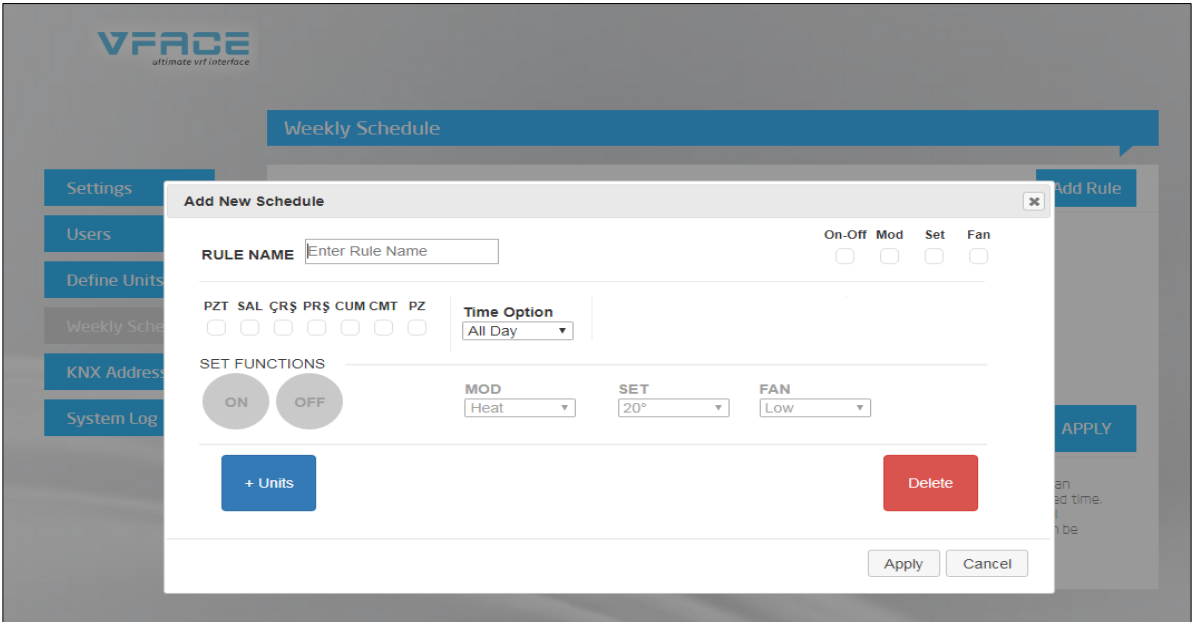
**Modbus:** Clicking the “Show” button provides list of Modbus addresses for integration with 3<sup>rd</sup> party products.

Modbus Address List			
Name	SlaveId	Type	Address
CONNECTED	1	DISCRETE_INPUT	32
ON-OFF (FB)	1	DISCRETE_INPUT	33
ON-OFF	1	COIL	32
FAN	1	HOLDING_REGISTER	32
MOD	1	HOLDING_REGISTER	33
SWING	1	HOLDING_REGISTER	34
SET TEMP	1	HOLDING_REGISTER	35
ROOM TEMP	1	INPUT_REGISTERS	32
ERROR	1	INPUT_REGISTERS	33
FAN (FB)	1	INPUT_REGISTERS	34
MOD (FB)	1	INPUT_REGISTERS	35
SWING (FB)	1	INPUT_REGISTERS	36
SET TEMP (FB)	1	INPUT_REGISTERS	37
T2B	1	INPUT_REGISTERS	38
Protection	1	INPUT_REGISTERS	39
T2	1	INPUT_REGISTERS	40

View from browser: Define Units/Show Modbus

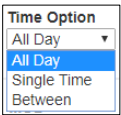
## Weekly Schedule

Following options will provide to control the units automatically by defining Rule, schedule and function lock.

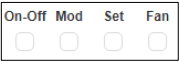


View from browser: Weekly Schedule/Add Rule

- **Rule name:** Define name to the rule/schedule.
- **Days:** Select the week days which you want to run this rule/schedule.
- **Time Options:** Set time when you want to run the rule/schedule.



Priority of “All Day” is higher than “Between” and ”Single Time”.



- **Set Functions:** Select which type of function you want to activate and include to your schedule.

**On/Off:** Define the state of unit.

**Mode:** Define mode of AC.

**Set:** Set the temperature.

**Fan Mode:** Define the intensity of fan.



- **Units:** Add which units and sections you want to include in you rule.



- **Delete:** Delete the Rule.

## KNX Addresses

**VFACE**  
ultimate vrf interface

- Settings
- Users
- Define Units
- Weekly Schedule
- KNX Addresses**
- System Log

KNX Addresses

+ **Add Unit**

Search:

ID: 006

Name: Bedroom

- **Delete**

Name	Set Address	Feedback Address	Broadcast Address	DTP
OnOff	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	BIT <span style="float: right;">▼</span>
Mod	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	BYTE <span style="float: right;">▼</span>
Fan	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	BYTE <span style="float: right;">▼</span>
Set Temp	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	FLOAT <span style="float: right;">▼</span>
Swing	<input style="width: 100px;" type="text"/>	Not Supported	Not Supported	BYTE <span style="float: right;">▼</span>
Room Temp	Not Supported	<input style="width: 100px;" type="text"/>	Not Supported	FLOAT <span style="float: right;">▼</span>
Error	Not Supported	<input style="width: 100px;" type="text"/>	Not Supported	BYTE <span style="float: right;">▼</span>

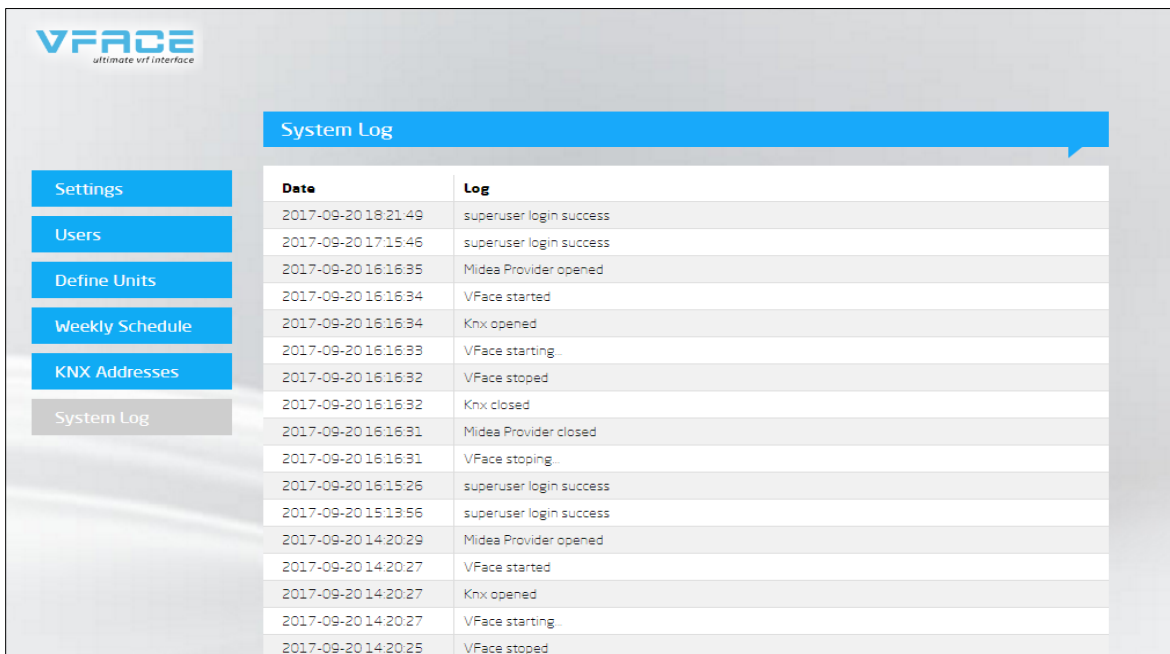
APPLY

*View from browser: KNX Addresses/Add Unit*

Before Adding KNX Addresses make sure that you have plugged KNX add-on module to port 2 and connection are properly accomplished.

According to the KNX Project, you need to enter Group Addresses to the table above. Each indoor unit will have such table need to be filled.

## System Log



**VFACE**  
ultimate vrf interface

**System Log**

Date	Log
2017-09-20 18:21:49	superuser login success
2017-09-20 17:15:46	superuser login success
2017-09-20 16:16:35	Midea Provider opened
2017-09-20 16:16:34	VFace started
2017-09-20 16:16:34	Knx opened
2017-09-20 16:16:33	VFace starting..
2017-09-20 16:16:32	VFace stoped
2017-09-20 16:16:32	Knx closed
2017-09-20 16:16:31	Midea Provider closed
2017-09-20 16:16:31	VFace stoping..
2017-09-20 16:15:26	superuser login success
2017-09-20 15:13:56	superuser login success
2017-09-20 14:20:29	Midea Provider opened
2017-09-20 14:20:27	VFace started
2017-09-20 14:20:27	Knx opened
2017-09-20 14:20:27	VFace starting..
2017-09-20 14:20:25	VFace stoped

View from browser: Settings/System Log

This menu provides information about last Logs in the system and also displays the action which were made during session.

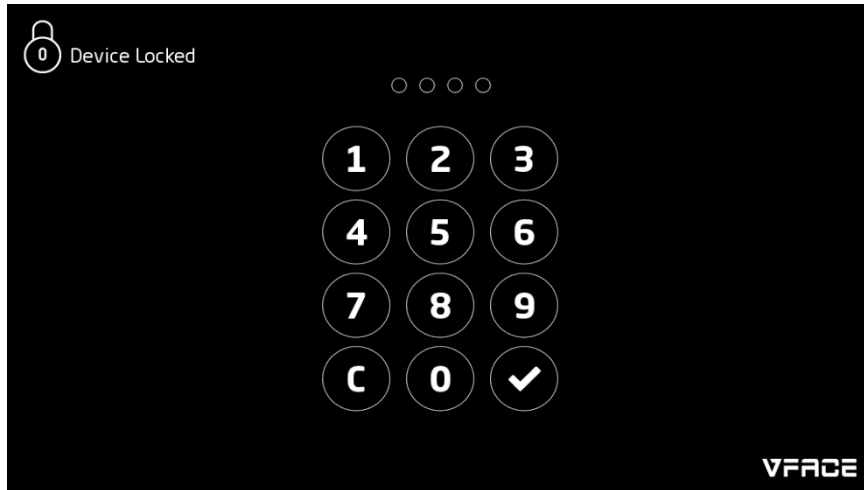
## VFACE Touch Interface

VFACE Touch presents by itself 7" capacitive touchscreen, which changes conception of BMS Automation by simple monitoring and control from Touch panel.

With including all options which VFACE Basic had and more, brings comfort and secure to your site.

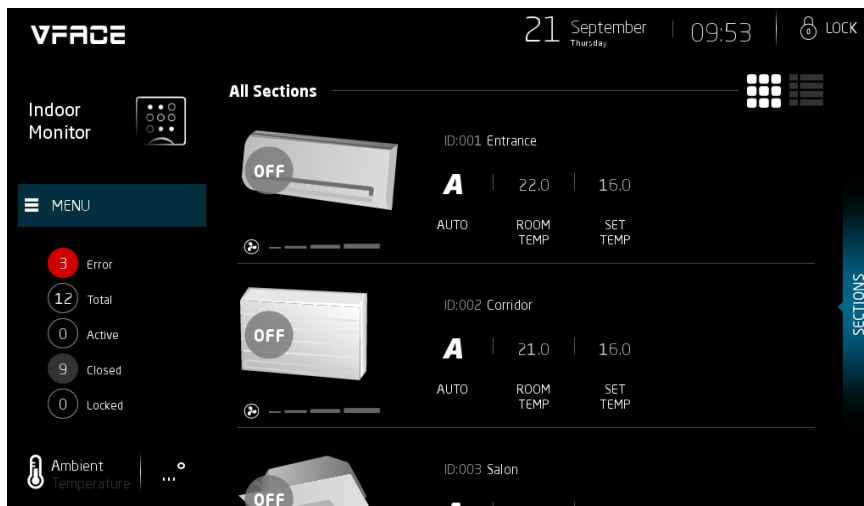
While power up the device you'll face with a Lock Screen.

Default password is **1234**. Later password can be change from settings.



View from VFACE Touch: Lock Screen

After entering the password as a main page will bring you to the Indoor Monitoring page.



View from VFACE Touch: Main Page/Indoor Monitoring

**Units List:** Under the Menu there is a list of all units and condition of them.



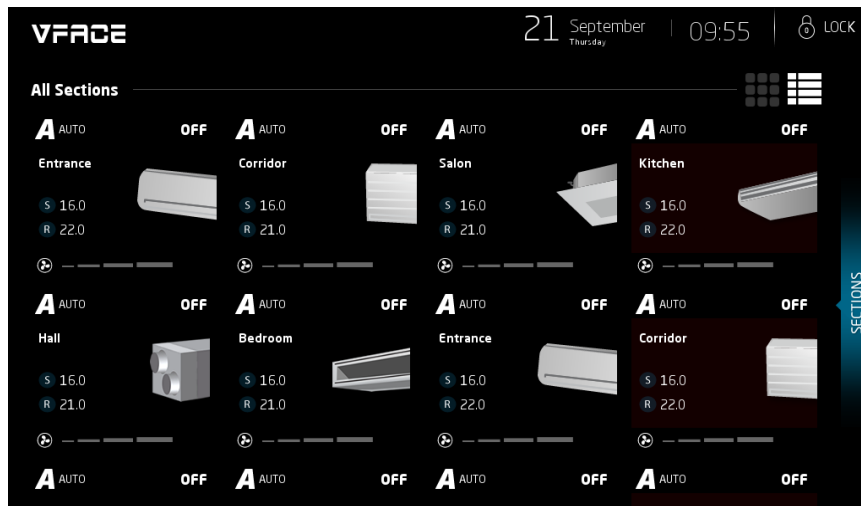
**View:** From view option, you can select Icon or List.



**Lock:** You can lock the screen any time you want.

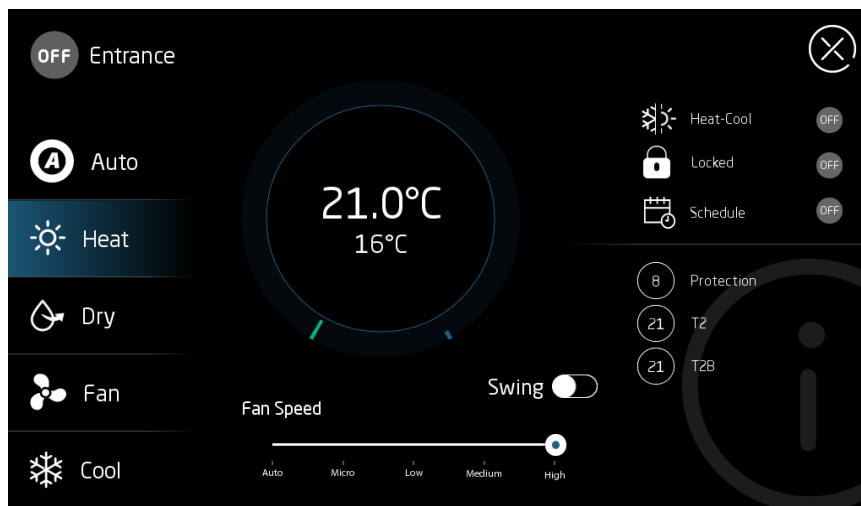
**Sections:** By moving sections button to the left you can view indoor units section by section.

By selecting **Icon** from view you can see all indoor unit in a full screen



View from VFACE Touch: Main Page/Indoor Monitoring

You can click any indoor unit which you want to control.



View from VFACE Touch: Indoor Monitoring/Unit Configuration

**On/Off:** Enable or Disables the indoor unit.

**Mode:** Select the mode of indoor unit.

**Fan Speed:** Select the intensity of Fan speed.

**Swing:** Select the swing mode.

**Set Temperature:** You can set the temperature by clicking the (+) and (-) buttons.

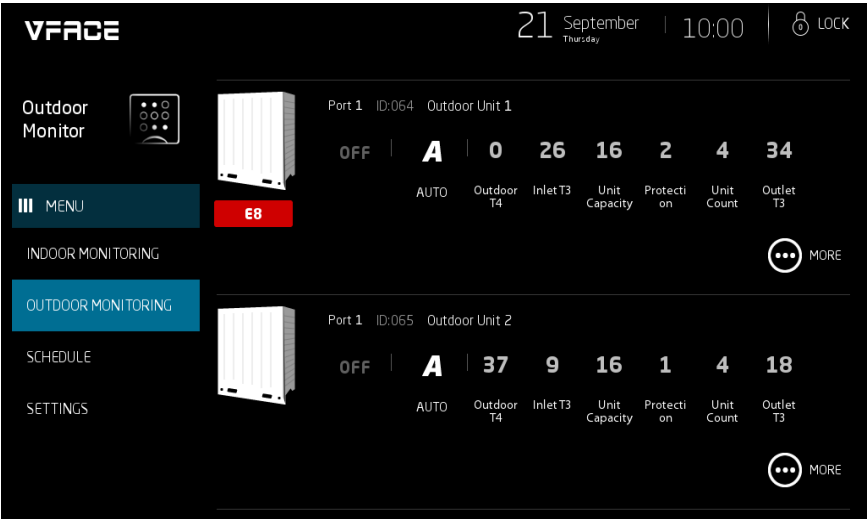
**Info bar:** On the right-side diagnostic information of indoor unit is available.

**Locked:** If you apply All Day schedule the Locked button will be Enable.

**Schedule:** Indicates if it's included to any Schedule and is that schedule active.

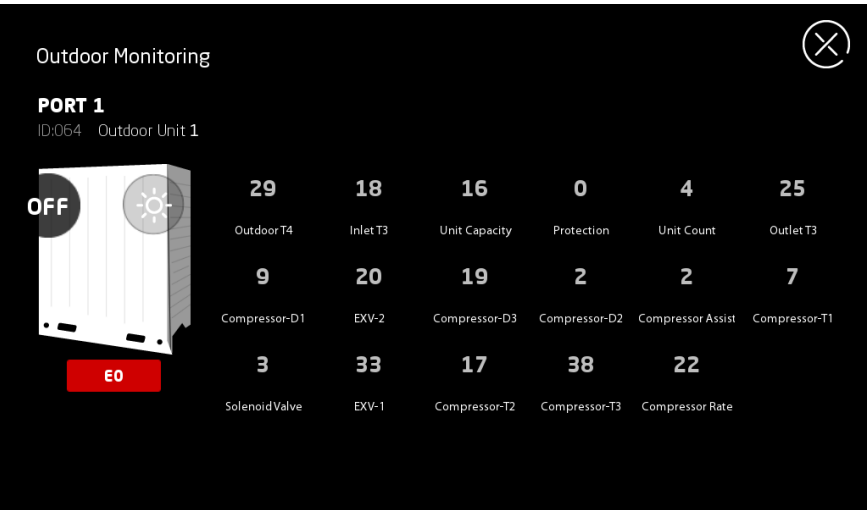
## Outdoor Monitoring

This section provides diagnostic information about the Outdoor units of VRV/VRF systems. Following information is just for monitoring, it's not allowed to make any changes.



View from VFACE Touch: Outdoor Monitoring

For more information about Outdoor Unit press **More** button.



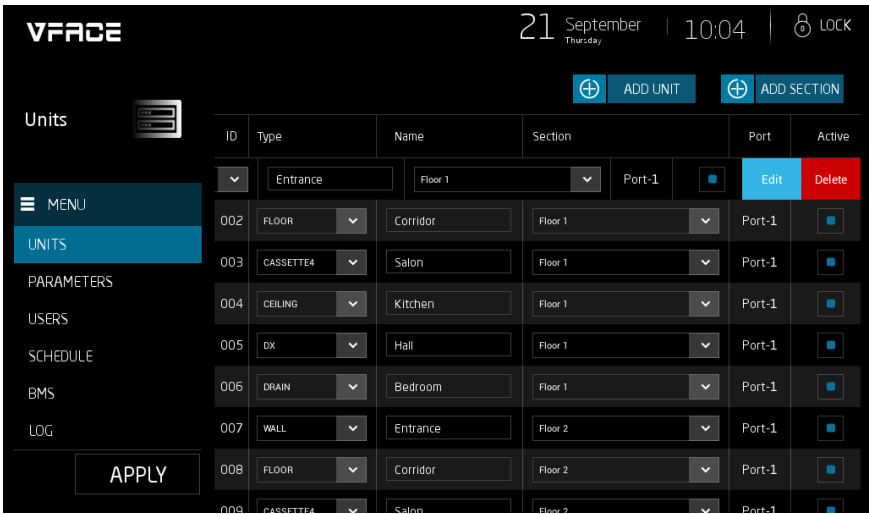
View from VFACE Touch: Outdoor Monitoring/More



## Settings

All the settings and configuration which were available in Web Interface also available in Settings of VFACE Touch.

### Units



View from VFACE Touch: Settings/Units

Displays all indoor units which exist in a system.

**Active:** Makes visible on Indoor Monitoring page.

**Port:** Displays to which port is connected indoor unit.

**Section:** Select to which section you want to include indoor unit.

**Name:** Define name to the Unit.

**ID:** Unique ID of the unit.

**Types:** Select the type of Indoor Unit from list.

- For Editing or Deleting of unit scroll desired unit to the left.

**Edit:** Open a window of Unit Editing

**Delete:** Delete the selected unit permanently.



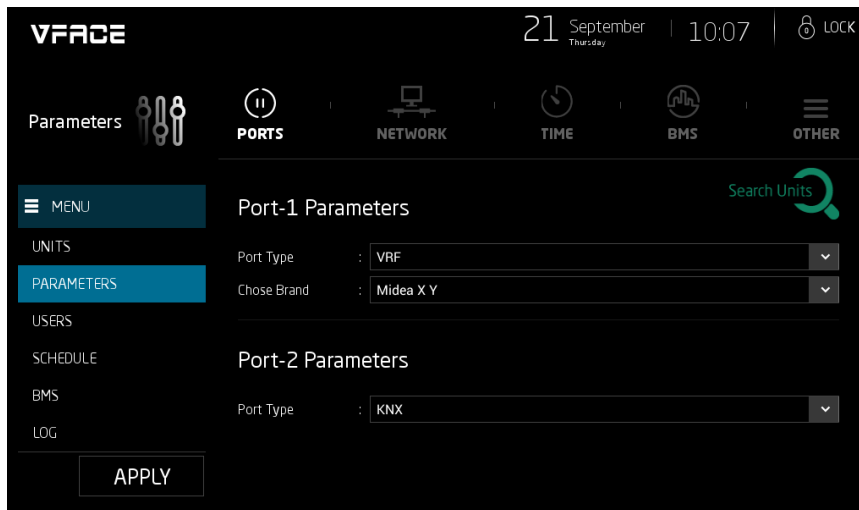
**Add Unit:** Indoor unit can be added manually by entering its Unit ID and clicking apply button.



**Add Section:** Button brings you to the configuration of section, where you can Add/Edit/Delete the sections.

## Parameters

### • PORTS



View from VFACE Touch: Settings/Parameters/Ports

#### Channel-1 Parameters

Channel Type: Select type of protocol (VRF / Modbus / KNX)

Choose Brand: Select brand of system from available list

#### Channel-2 Parameters

Channel Type: Select type of protocol (VRF / Modbus / KNX)

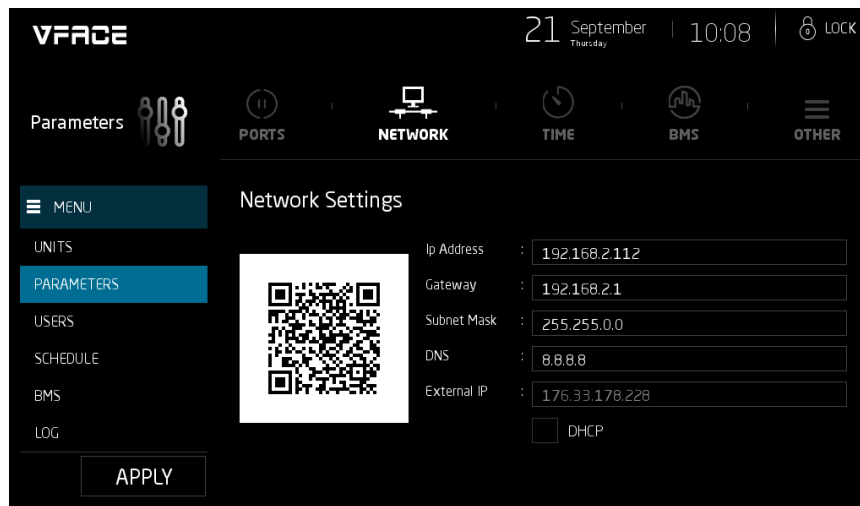
- If you select Modbus as a channel type you will have set Baudrate menu to set.



**Search:** While wiring connection with Outdoor unit and VFACE is accomplished you can proceed to search. By clicking search you will be able to discover all indoor units which are connected to your system.

According to brands searching time may last up to 2 minutes.

### • NETWORK



View from VFACE Touch: Settings/Parameters/Network

Please set the Network configuration according to your network, don't miss any parts or leave it empty.

In a case that you set DHCP, device will take all network configuration from router and finding your device through scanning network will take a time. For that reason, Manual configuration of network is suggested.

**IP Address:** Set IP Address to device.

**Gateway:** Enter gateway address.

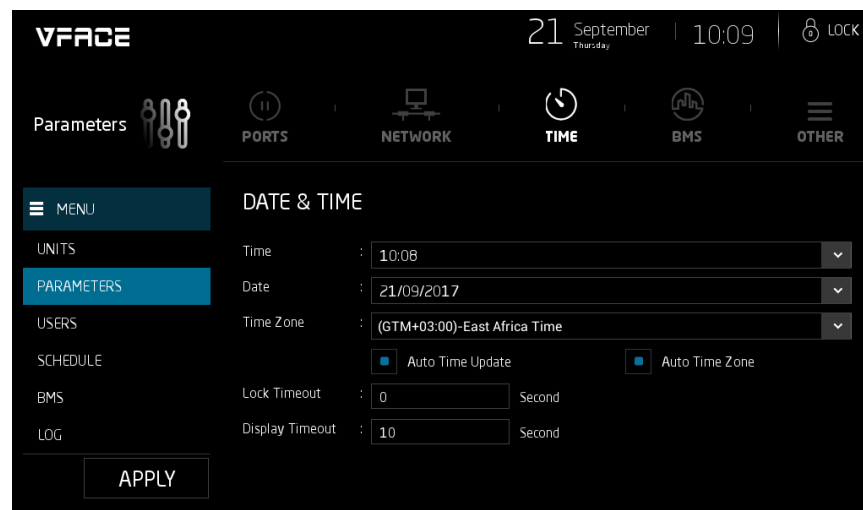
**Subnet Mask:** set subnet mask according to your network system.

**DNS:** Suggested default DNS server **8.8.8.8**

**External IP:** Displays Static/External IP of the network.

**QR Code:** Download VFACE Mobile App to your mobile device and scan the QR Code for remote access.

#### • Date & Time



View from VFACE Touch: Settings/Parameters/Time

Date and Time settings can be configured in manual also you can be set Automatically.

**Lock Timeout:** Define the time interval before Locking the screen.

**Display Timeout:** Define the time interval before Display turns off.

• BMS

View from VFACE Touch: Settings/Parameters/BMS

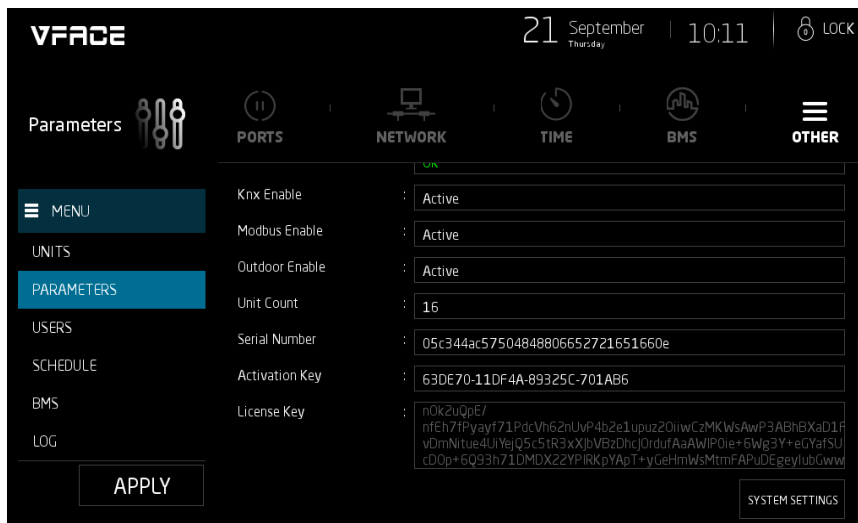
Port and slave address configuration for Modbus TCP connection. Default states of them you can see it on picture above.

• Other

View from VFACE Touch: Settings/Parameters/Other

Following settings are the same as in the Web interface. There only one deference is lock password.

**Lock Password:** Define the Lock screen password. Default password is **1234**.



View from VFACE Touch: Settings/Parameters/Other

This section is generated during manufacturing and in an accordance of customer order. By contacting your dealer, you can upgrade your licenses.

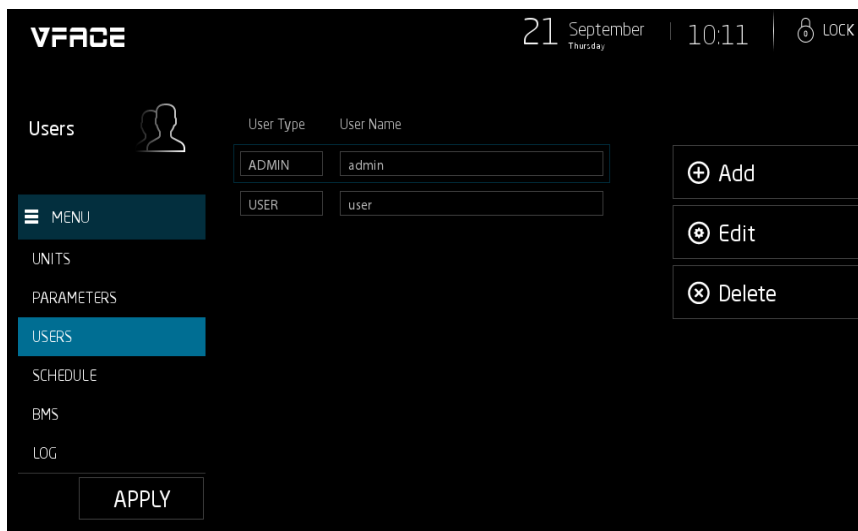
**License Key:** Unique License Key of the device.



**System Settings:** Brings to the operation system settings of touch panel.

Followings settings is for technical representative, don't make any changes it will cause failure in the entire device.

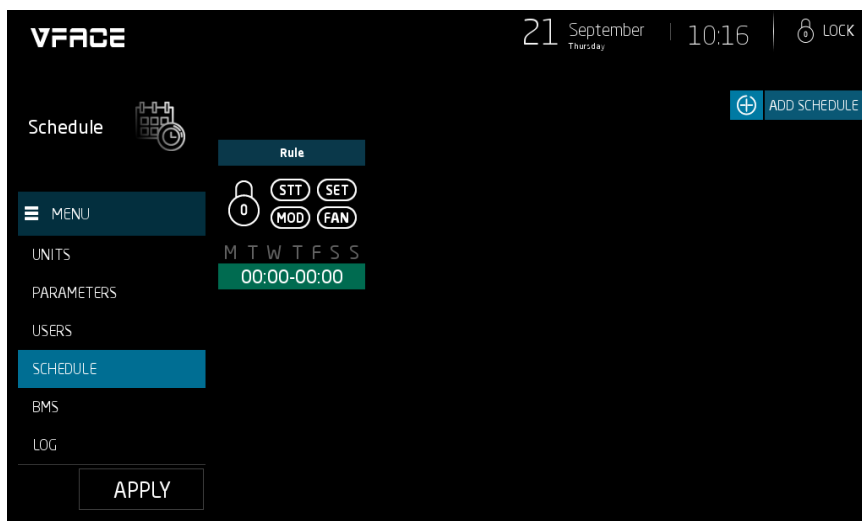
## Users



View from VFACE Touch: Settings/User

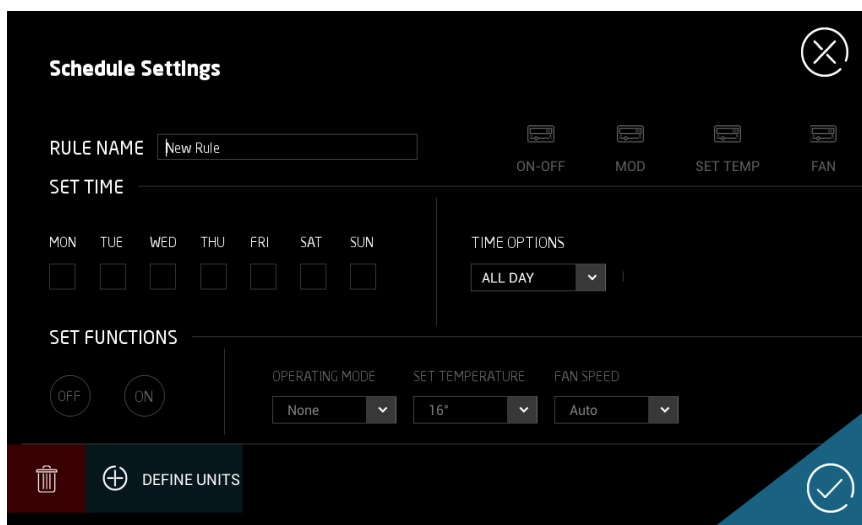
All type of users can be added and existed users can be Edited or Deleted through following section.

## Schedule



View from VFACE Touch: Settings/Schedule

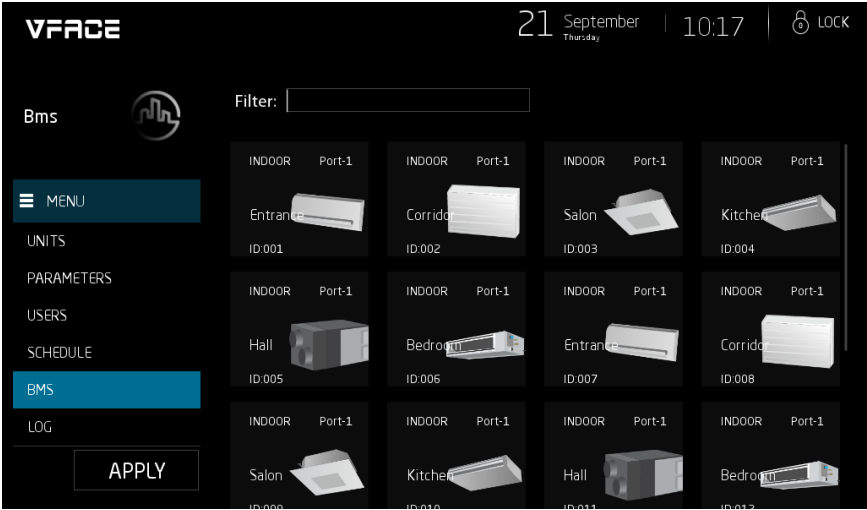
New schedule can be created by clicking **add schedule** and existed can be edited by clicking on it.



View from VFACE Touch: Settings/Schedule/Add Rule

Adding rule/schedule is similar to the Web Interface select actions, after define units which you want to control.

BMS



View from VFACE Touch: Settings/BMS

By clicking indoor unit you can reach the modbus and KNX table which needed to be filled for integration with other systems.

MODBUS SETTINGS | KNX SETTINGS

ID.001 | NAME:001

NAME	BUS ID	TYPE	ADDRESS
CONNECTED	1	DISCRETE_INPUT	32
'ON-OFF (FB)	1	DISCRETE_INPUT	33
ON-OFF	1	COIL	32
FAN	1	HOLDING_REGISTER	32
MOD	1	HOLDING_REGISTER	33
SWING	1	HOLDING_REGISTER	34
ROOM TEMP	1	INPUT_REGISTERS	32
ERROR	1	INPUT_REGISTERS	33
FAN (FB)	1	INPUT_REGISTERS	34
MOD (FB)	1	INPUT_REGISTERS	35
SWING (FB)	1	INPUT_REGISTERS	36
SET TEMP (FB)	1	INPUT_REGISTERS	37

View from VFACE Touch: Settings/BMS/Modbus

Modbus addressing table per unit for integration with 3<sup>rd</sup> party devices.

MODBUS SETTINGS
KNX SETTINGS

ID:001
NAME:001

NAME	SET ADDRESS	FEEDBACK ADDRESS	BROADCAST ADDRESS	DTP
On/Off	<input type="text"/>	<input type="text"/>	<input type="text"/>	BIT
Mod	<input type="text"/>	<input type="text"/>	<input type="text"/>	BYTE
Fan	<input type="text"/>	<input type="text"/>	<input type="text"/>	BYTE
Set Temp	<input type="text"/>	<input type="text"/>	<input type="text"/>	FLOAT
Swing	<input type="text"/>	Not Supported	Not Supported	BYTE
Room Temp	Not Supported	<input type="text"/>	Not Supported	FLOAT
Error	Not Supported	<input type="text"/>	Not Supported	BYTE

View from VFACE Touch: Settings/BMS/KNX

According to the KNX Project, you need to enter Group Addresses to the table above. Each indoor unit will have such table need to be filled.

## LOG

VFACE
21 September | 10:19 | LOCK

Log

MENU
UNITS
PARAMETERS
USERS
SCHEDULE
BMS
LOG

TIME	DATE	LOG
09:38:26	21/09/2017	superuser login success
09:22:01	21/09/2017	Midea Provider opened
09:21:59	21/09/2017	VFace started
09:21:59	21/09/2017	Knx opened
09:21:59	21/09/2017	VFace starting...

APPLY

View from VFACE Touch: Settings/Log

This menu provides information about last Logs in the system and also displays the action which were made during session.



## VFACE Support List

	OUTDOOR	INDOOR
<b>DAIKIN VRV</b>	RXYQ-M/P (VRV II, VRV III) RXYQ (VRV-IV) RQYQ-P, RQCEQ (RQEQ), RYYQ-T (RYMQ), (VRV4) RQZQ-ABYN RXYK (VRV) RXYSQ-M/P (VRV Small) RXYSCQ RHXY RHXYQ RXY-M RWEYQ REYQ (REMQ), REYHQ REAQ RXYCQ-A RQQ RXYQ-T RXTQ RPZQ	FJEKP FXCQ FXNQ FXLQ FXFQ FXKQ FXZQ FXDQ FXDYQ FXSQ FXAQ FXUQ FXMQ FXHQ FXTQ FQDP FQRP FQSP FZFP FZSP VKM FXDp FDYQN
<b>HITACHI</b> H link adapter (PSC-6RAD)	RAS-FSN RAS-FSXN RAS-FXNE	RCI RPC RPFI RCD RPK RPI RPF
<b>mitsubishi electric</b> <b>VRF</b>	PUHY PURY PQHY PQRY PUMY	PKFY PFFY-PVKM PLFY-P-VCN PEFY-P-VMS1 PFFY-P-VLRN PCFY-P-VGM PLFY-P-VLMD PEFY-P-VMM PFFY-P-VLEM PLFY-P-VBM PMFY-P-VBM PEFY-P-VMH PEFY-P-VMA PEFYP100VMA-E PEFY-P-VMA-E PEFY-P63VMA(L)-E PVFY-P
<b>MITSUBUSHI ELECTRIC</b> <b>Split / Multi Split</b>	PUHZ	PEAD SEZ-KD

<b>PANASONIC</b>	MFL EFL SPW_CO SPW-C SPW-CR SGP-EZ SGP-EW U-ME	NWFL NDHP NPFL NPFL NDSLPL NKFL NFFL NDLP NK2FL NFMFL SPW-X SPW-XM SPW-ADR SPW-SR SPW-LDR SPW-FUR SPW-K SPW-FMR SPW-FTR SPW-FR SPW-KR SPW-UMR SPW-U S-MF S-MU S-MY S-ML S-MD S-MM S-MZ S-ME S-MT S-MK S-MP S-MR
<b>SANYO</b>	MFL EFL SPW_CO SPW-C SPW-CR SGP-EZ SGP-EW	NWFL NDHP NPFL NPFL NDSLPL NKFL NFFL NDLP NK2FL NFMFL SPW-X SPW-XM SPW-ADR SPW-SR SPW-LDR SPW-FUR SPW-K SPW-FMR SPW-FTR SPW-FR SPW-KR

		SPW-UMR SPW-U
<b>TOSHIBA</b>	MCY-MAP..HT MCY-MHP..E MMY-MAP..T8 MMY-MAP..HT8 MMY-MAP..FT8	MMU-AP..H MMK-AP..E MML-AP..E MMU-AP..YH MMD-AP..SPH MML-AP..H MMD-AP..HFE MMU-AP..MH MMD-AP..BH MMC-AP..H MML-AP..BH MMU-AP..WH MMD-AP..H MMK-AP..H MMF-AP..H
<b>LG</b>	ARUB-LT ARU ARUN-LT ARUN-GS ARUN-LR ARUN-BTE ARUV-LT ARWB-BAS ARWN-BAS	ARNU-GB1G ARNU-GCEA ARNU-GSEL ARNU-GSBL ARNU-GSER ARNU-GSF ARNU-GTEC ARNU-GTJC ARNU-GB1G ARNU-GBHA ARNU-GCFA ARNU-GCFU ARNU-GBGA ARNU-GTMC ARNU-GBRA ARNU-SCR ARNU-NJA ARNU-NKA ARN ARNBG ARNL ARNTP ARNTM
<b>mitsubishi heavy</b> Super Link Interfaces (SC-AND-E)	FDCA FDC	FDTA FDUA FDT FDTCA FDQSA FDCT FDQS FDTQA FDKA FDTW FDK FDTSA FDEA FDTS FDE FDTWA

		FDFLA FDTQ FDFL FDUMA FDFUA FDU FDFU
<b>SAMSUNG</b>	AM072FXVAFH/AA AM096FXVAFH/AA AM120FXVAFH/AA AM144FXVAFH/AA AM168FXVAFH/AA AM192FXVAFH/AA AM216XVAFH/AA AM240FXVAFH/AA AM264FXVAFH/AA AM288FXVAFH/AA AM312FXVAFH/AA AM336FXVAFH/AA AM360FXVAFH/AA AM348FXVAFH/AA AM408FXVAFH/AA AM432FXVAFH/AA AM072FXVAFR/AA AM096FXVAFR/AA AM120FXVAFR/AA AM144FXVAFR/AA AM168FXVAFR/AA AM192FXVAFR/AA AM216XVAFR/AA AM240FXVAFR/AA AM264FXVAFR/AA AM288FXVAFR/AA AM312FXVAFR/AA AM336FXVAFR/AA AM360FXVAFR/AA AM348FXVAFR/AA AM408FXVAFR/AA AM432FXVAFR/AA AM072FXVAJH/AA AM096FXVAJH/AA AM120FXVAJH/AA AM144FXVAJH/AA AM168FXVAJH/AA AM192FXVAJH/AA AM216XVAJH/AA AM240FXVAJH/AA AM264FXVAJH/AA AM288FXVAJH/AA AM312FXVAJH/AA AM336FXVAJH/AA AM360FXVAJH/AA AM348FXVAJH/AA AM408FXVAJH/AA AM432FXVAJH/AA AM072FXVAJR/AA	AM009FN4DCH/AA AM018FN4DCH/AA AM024FN4DCH/AA AM030FN4DCH/AA AM036FN4DCH/AA AM048FN4DCH/AA AM009FNNDCH/AA AM012FNNDCH/AA AM018FNNDCH/AA AM020FNNDCH/AA AM007FN1DCH/AA AM009FN1DCH/AA AM012FN1DCH/AA AM036FNHDCH/AA AM048FNHDCH/AA AM076FNHDCH/AA AM096FNHDCH/AA AM018FNMDCH/AA AM024FNMDCH/AA AM030FNMDCH/AA AM036FNMDCH/AA AM048FNMDCH/AA AM007FNLDCH/AA AM009FNLDCH/AA AM012FNLDCH/AA AM024FNLDCH/AA AM030FNLDCH/AA AM036FNLDCH/AA AM048FNLDCH/AA AM007FNTDCH/AA AM009FNTDCH/AA AM012FNTDCH/AA AM018FNTDCH/AA AM020FNTDCH/AA AM024FNTDCH/AA AM018FNCDC/AA AM024FNCDC/AA AM071FNMDEH AM090FNMDEH AM028FN1DEH AM071FN1DEH AM071FNCDEH AM015HNNDEH/EU AM015HNQDEH/EU AM022FNNDEH/EU AM028FNNDEH/EU AM017FNLDEH/EU AM022FNLDEH/EU AM028FNLDEH/EU

	AM096FXVAJR/AA AM120FXVAJR/AA AM144FXVAJR/AA AM168FXVAJR/AA AM192FXVAJR/AA AM216XVAJR/AA AM240FXVAJR/AA AM264FXVAJR/AA AM288FXVAJR/AA AM312FXVAJR/AA AM336FXVAJR/AA AM360FXVAJR/AA AM348FXVAJR/AA AM408FXVAJR/AA AM432FXVAJR/AA AM036FXMDCH/AA AM048FXMDCH/AA AM053FXMDCH/AA AM080FXWANR/EU AM100FXWANR/EU AM120FXWANR/EU AM160FXWANR/EU AM180FXWANR/EU AM200FXWANR/EU AM220FXWANR/EU AM240FXWANR/EU AM260FXWANR/EU AM280FXWANR/EU AM300FXWANR/EU AM320FXWANR/EU AM340FXWANR/EU AM360FXWANR/EU AM380FXWANR/EU AM400FXWANR/EU AM420FXWANR/EU AM440FXWANR/EU AM480FXWANR/EU AM500FXWANR/EU AM520FXWANR/EU AM600FXWANR/EU AM060FXMDEH/EU AM080FXVAGH/EU AM240FXVAGR/EU AM140FXVAGR/EU AM180FXVAGR/EU	AM036FNLDEH/EU
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