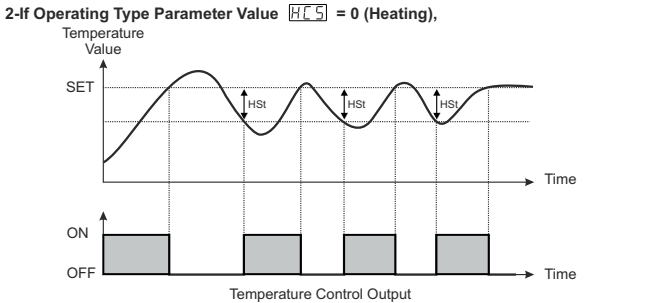
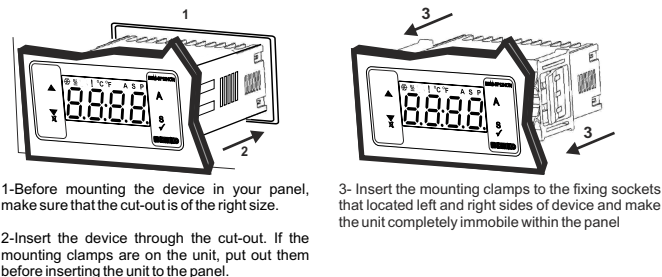


1-If Operating Type Parameter Value **HCS** = 1 (Cooling),
Switch On Delay After Power On Parameter Value **PoD** ≥ 1,
Compressor Stop/Start Time Delay Parameter Value **SPd** ≥ 1 and
Compressor Start/Start Time Delay Parameter Value **StTd** ≥ 1;

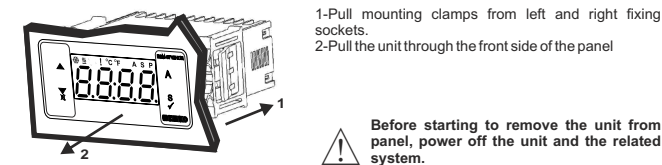


5br Screen Blinking
Sensor failure . Sensor connection is wrong or there is no sensor connection. If buzzer function selection parameter **buzF** is 2, internal buzzer starts to operate.

2.3 Panel Mounting



2.4 Removing from the Panel



3. Using Prokey

TO USE PROKEY, VALUE OF THE Prc PARAMETER MUST BE '0'. IF Prc=1 AND ▼ BUTTON IS PRESSED [Err] MESSAGE WILL BE SHOWN. 10s. LATER DEVICE TURNS BACK TO THE MAIN OPERATION SCREEN OR YOU CAN PRESS SET BUTTON TO TURN BACK TO MAIN OPERATION SCREEN.

DOWNLOADING FROM DEVICE TO PROKEY

- The device is programmed by using the parameters.
- Energize the device then put in PROKEY and press ▼ button. [uP] Message is shown on the display. When the loading has finished, [End] message is shown.
- Press any button to turn back to main operation screen.
- Remove the PROKEY.

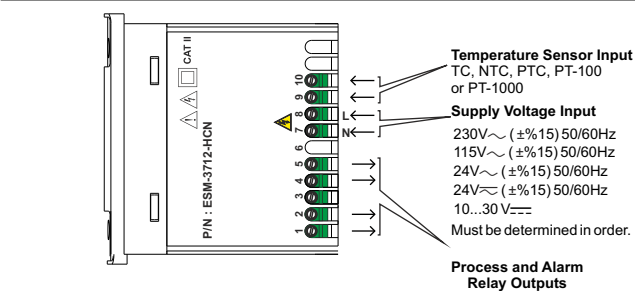
NOTE: [Err] message is shown when an error occurs while programming. If you want to reload, put in PROKEY and press ▼ button. If you want to quit, remove PROKEY and press ▼ button. The device will turn back to main operation screen.

DOWNLOADING FROM PROKEY TO DEVICE

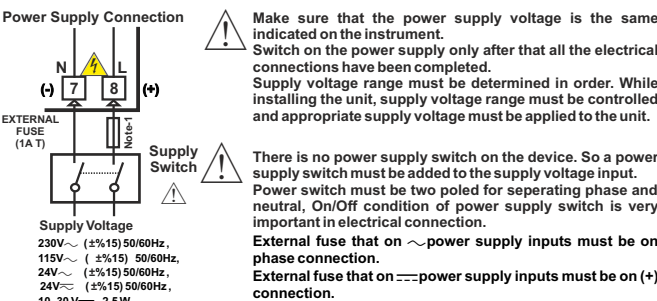
- Switch off the device.
- Put in PROKEY then energize the device.
- When the device is energized, the parameter values in PROKEY, start downloading to the device automatically. At first, [uP] message is shown on the display, when loading has finished, [End] message is shown.
- After 10 seconds device starts to operate with new parameter values.
- Remove the PROKEY.

NOTE: [Err] message is shown when an error occurs while programming. If you want to reload, switch off the device and put in PROKEY then energize the device. If you want to quit remove PROKEY and press ▼ button. The device will turn back to main operation screen.

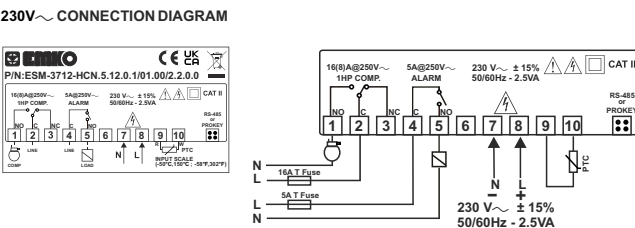
4. Electrical Wiring Diagram



4.1 Supply Voltage Input Connection of the Device



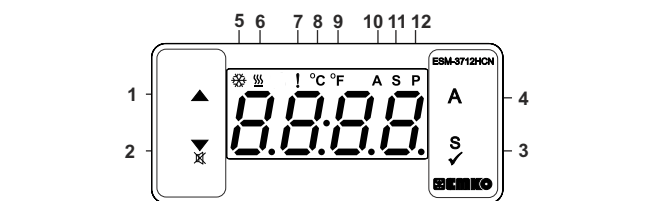
4.2 Device Label and Connection Diagram



6.2 Programming Mode Parameter List

C-F	Temperature Unit Selection Parameter (Default = 0) MODBUS ADDRESS : 40002
Pnt	Decimal Separator Enabling Parameter (Default = 0) MODBUS ADDRESS:40003
HSt	Hysteresis Parameter for Compressor Output (Default = 1) MODBUS ADDRESS:40004
SuL	Minimum Temperature Set Value Parameter (Default = Minimum Value of Device Scale) MODBUS ADDRESS:40005
SuH	Maximum Temperature Set Value Parameter (Default = Maximum Value of Device Scale) MODBUS ADDRESS:40006
oFt	Sensor Offset Parameter (Default = 0) MODBUS ADDRESS:40007
HCS	Operating Type Parameter (Default = 0) MODBUS ADDRESS:40008
Pos	Compressor Start Delay at Power On Parameter (Default = 0) MODBUS ADDRESS:40009
buF	Buzzer Function Selection Parameter (Default = 0) MODBUS ADDRESS:40023
bon	Buzzer is active during this time (Default = -) MODBUS ADDRESS:40024
Prc	PROKEY communication selected.
SAd	Slave ID Parameter (Default = 1) MODBUS ADDRESS=40026
AEa	Manual Alarm Output Active Parameters (Default = 0) MODBUS ADDRESS=40027
PAS	Programming Section Accessing Password (Default = 0) MODBUS ADDRESS:40028
Pos	Compressor Start Delay at Power On Parameter (Default = 0) MODBUS ADDRESS:40009
SPd	Compressor Stop-Start Delay Parameter (Default = 0) MODBUS ADRES:40010
SEd	Compressor Start-Start Delay Parameter (Default = 0) MODBUS ADRES:40011
PdF	Sensor Defect Parameter (Default = 0) MODBUS ADDRESS:40012
Pon	Compressor is active during this time period in case of probe defect (Default = 0) MODBUS ADDRESS:40013
PoF	Compressor is inactive during this time period in case of probe defect (Default = 0) MODBUS ADDRESS:40014
ALs	Alarm Type Selection Parameter (Default = 2) MODBUS ADDRESS:40015
ALL	Alarm Set Value Low Limit Parameter (Default = Minimum Value of Device Scale) MODBUS ADDRESS:40016
uL	Alarm Set Value High Limit Parameter (Default = Maximum Value of Device Scale) MODBUS ADDRESS:40017
Ron	Alarm On Delay Time Parameter (Default = 0) MODBUS ADDRESS:40018
RoF	Alarm Off Delay Time Parameter (Default = 0) MODBUS ADDRESS:40019
APd	Alarm Delay Parameter After Power On (Default = 0) MODBUS ADDRESS:40020
ALs	Alarm Set Value Parameter (Default = 20) MODBUS ADDRESS:40021
ALH	Alarm Hysteresis Parameter (Default = 0) MODBUS ADDRESS:40022

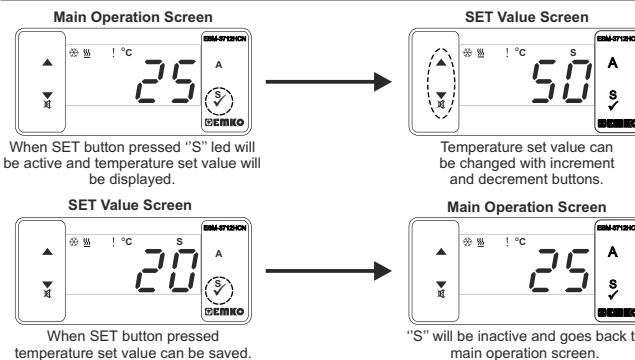
5.Front Panel Definition and Accessing to the Menus



BUTTON DEFINITIONS

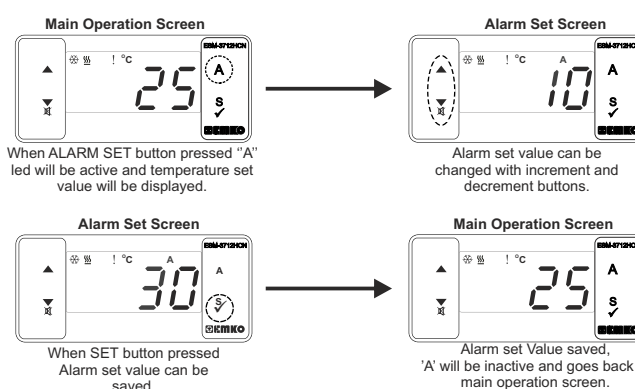
- Increment Button :**
** It is used to increase the value in the Set screen and Programming mode.
** In the main operation screen: After pressing this button for 5 seconds, alarm output will be Active manually during pressing button. Alarm output will be passive after release the button.
 - Decrement, Silencing Buzzer and Downloading to Prokey Button :**
** It is used to decrease the value in the Set screen and Programming mode.
** It is used to silence the buzzer.
** If Prc=0, it is used to download from device to prokey.
 - Set Button :**
** In the main operation screen; if this button pressed, set value will be displayed. Value can be changed using increment and decrement buttons. When Set button pressed again, value is saved and returns back to main operating screen.
** To access the programming screen; in the main operation screen, press this button for 5 seconds.
** It is used to saving value in the Set screen and programming screen.
 - Alarm Set Button :**
** In the main operation screen; if this button is pressed, Alarm set value will be displayed. Value can be changed using increment and decrement buttons. When Set button is pressed again, value is saved and returns back to main operating screen.
- LED DEFINITIONS**
- Cooling led :**
** This led indicates that cooling control is selected and process output relay is active. If any of compressor protection time active, this led blinks.
 - Heating led :**
** This led indicates that heating control is selected and process output relay is active.
 - Alarm led :**
** It is active in all alarm statuses.
 - Celcius led :**
** Indicates that device is in °C mode.
 - Fahrenheit led :**
** Indicates that device is in °F mode.
 - Alarm Set led :**
** It is active when alarm statuses.
 - Set led :**
** Indicates that device is in Set value changing mode.
 - Program led :**
** Blinks in programming mode.

6. Changing and Saving Temperature Set Value



Temperature set value parameter (Default=30) MODBUS ADDRESS:40001
Temperature set value, can be programmed between minimum temperature set value [SuL] and maximum temperature set value [SuH].

6.1 Changing and Saving Alarm Set Value



If no operation is performed in Alarm set value changing mode and process set value changing mode for 20 seconds, device turns to main operation screen automatically.

SPd	Compressor Stop-Start Delay Parameter (Default = 0) MODBUS ADRES:40010
SEd	Compressor Start-Start Delay Parameter (Default = 0) MODBUS ADRES:40011
PdF	Sensor Defect Parameter (Default = 0) MODBUS ADDRESS:40012
Pon	Compressor is active during this time period in case of probe defect (Default = 0) MODBUS ADDRESS:40013
PoF	Compressor is inactive during this time period in case of probe defect (Default = 0) MODBUS ADDRESS:40014
ALs	Alarm Type Selection Parameter (Default = 2) MODBUS ADDRESS:40015
ALL	Alarm Set Value Low Limit Parameter (Default = Minimum Value of Device Scale) MODBUS ADDRESS:40016
uL	Alarm Set Value High Limit Parameter (Default = Maximum Value of Device Scale) MODBUS ADDRESS:40017
Ron	Alarm On Delay Time Parameter (Default = 0) MODBUS ADDRESS:40018
RoF	Alarm Off Delay Time Parameter (Default = 0) MODBUS ADDRESS:40019
APd	Alarm Delay Parameter After Power On (Default = 0) MODBUS ADDRESS:40020
ALs	Alarm Set Value Parameter (Default = 20) MODBUS ADDRESS:40021
ALH	Alarm Hysteresis Parameter (Default = 0) MODBUS ADDRESS:40022

6.4 Operation Graphics of Alarm Output and Alarm Types

