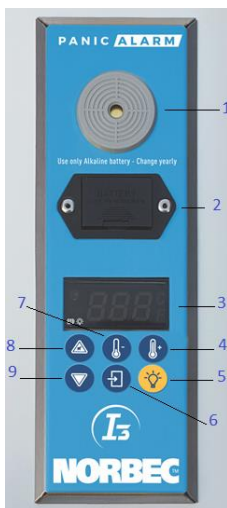## OPERATING AND CONFIGURING INSTRUCTIONS

OPTION

1. Panic Alarm Buzzer
2. Battery (9 Volt) Holder
3. Display
4. High Temp alarm Button
5. Light Switch Button
6. Set Button
7. Low Temp Alarm Button
8. Up Button (and Mute)
9. Down Button
10. Mute Button (only mute the loud Buzzer)

DESCRIPTION FOR EACH FEATURE

Activation & disabling the module

Before being delivered to the customer, the module is disabled. The ''OFF'' message is displayed on the screen. When the module is disabled, only the alarms and temperature displays are deactivated. It is always possible to control the lighting manually or automatically, with the door (See ''lighting Control''). Note that all the initial parameters and those modified by the customer are stored in memory when the module is disabled.

Refer to ''keypad Operation'' section on how to enable and disable the module.

Temperature monitoring and display

The unit displays the temperature in degrees Celsius. Should one or more alarms be present, the display will show the temperature and the alarm message(s) alternatively.

Lighting control

The lighting is controlled two different ways;
1. By pressing the button on the keypad, which will switch alternatively ON and OFF.
2. By detecting the opening of the door, which will turn the lights ON and the closing door will initiate a 5-minute countdown. The light will then go OFF after this delay.

Temperature Alarms

These alarms are activated 45 minutes (adjustable, see «parameter descriptions» after reaching the temperature alarm settings. An audible alarm (about 55 dB) from the keypad will then occur. The display will show the message HA (High Temp Alarm) Or LA *Low Temp Alarm), alternatively with the actual temperature. The 115 Volt alarm signal will turn ON.

The High and Low temperature alarm setting and the activation delay can be modified in the parameters menu.

Door Open Alarm

If the door remains open for more than 15 minutes (adjustable, see « parameter descriptions»), this alarm is triggered and an audible alarm from the keypad will occur. The display will show the message dA (Door Open Alarm), alternatively with the actual temperature. The 115 Volt alarm signal will turn ON.

DESCRIPTION FOR EACH FEATURE (Cont'd.)

Panic Alarm

This alarm is triggered by an interior backlit button, besides the door opening. When pressing this button, an audible alarm (about 80 dB) from the keypad and from the external grey buzzer will occur. The display will also show the message EA (External Alarm) alternatively with the actual temperature. The 115 Volt alarm signal will turn ON. **This alarm will be active as long as the panic button is pressed.**

Note that the gray external buzzer connected to the emergency alarm is powered only by the battery backup power. It is important to periodically check the condition of the battery and the backup power. It is important to periodically check the condition of the battery and the backup power because once the battery dies, no external sound signal will be triggered with the activation of the emergency alarm push button.

Muting an alarm

Pressing the "Silent" button on the keyboard (top left), during an alarm, will mute the audible signal but the associated alarm message and the 115 Volt signal will remain until the alarm condition disappears.

Battery back-up

The 9 Volt battery holder is located just above the controller. In normal condition, an alkaline battery should maintain the temperature display and the alarm messages in operation during power outages for 24 hours, depending on the battery condition. **As this battery is not rechargeable, it shall be replaced yearly or every time there is a power outage lasting more than one hour.**

The battery only supports the controller display and the local Panic Alarm, via the grey buzzer. This battery's condition must be checked periodically.

The external 115 Volt alarm signal is not supported by this battery back-up. If it is a requirement to have an external alarm signal on power outages, the Dry Contact signal option, with proper parameter settings, is required to achieve this functionality.

OPTIONS

Alarm Annunciator

This additional buzzer (about 90dB) is ideally suited for hearing any of the I3 alarms in a noisy environment. It is muted independently from the keyboard Buzzer, by its own Mute button. This annunciator is not supported by the back-up battery.

Note that at the request of the client on site, this additional audible warning can be surface mounted to the desired location (see I3 wiring diagrams for details). Without special request, it will be installed near the I3 Intelligence module.

Fan failure alarm

When a ventilation system circulates air in concealed spaces around the exterior of walk-in cold rooms, optional sensors can be supplied to monitor the presence of air flow on each blower. If air flow stops, the system triggers an audible alarm and displays a message on the keypad. The display will also show the message EA (External Alarm) alternatively with the actual temperature. Without grey external alarm (Different from Panic Alarm).

The 115 Volt alarm signal will be active as long as the failure exists. When this alarm is ON, the Alarm LED on the left of the display will ON.

Three-way Switch for Lighting

This option allows to control lighting through two different door. The three-way switch for lighting can be in automatic of manual mode. For each lighting mode, cable configurations and, positioning of hardware and distinct metrication is required. You must refer to the I3 wiring diagrams for the proper electrical connection according to the lighting mode selected. By default, the three-way switch is in automatic mode. The configuration in three ways manual mode is only on demand.

Note that the open door alarm will be disabled with the three-way switch for manual lighting.

Dry Contact for External Alarm signal

The standard external alarm is a 115 Volt signal. As an option, it can be converted to a dry contact (Normally Closed) that opens an alarm signal (see I2 wiring diagrams for more details). This option also includes a normally open contact if it needs to be.

Glycerine Immersion

Having the temperature probe immersed in glycerine prevents rising temperature readings and false temperature alarms due to the opening of the door.

KEYPAD OPERATION

Press 1 second to activate the module. Press 5 seconds to disable the mode. The message OFF is displayed on the screen when the module is disabled.

Switch ON and OFF the light fixture.

Press to see the HIGH Temp ALARM setting (ALU parameter).

Press for 3 seconds to enter a new value for the HIGH Temp ALARM (ALU displayed), then press the Up-Down Buttons for proper setting and then press the Set button to confirm and exit.

Press to see the LOW Temp ALARM setting (ALL parameter).

Press for 3 seconds to enter a new value for the LOW Temp ALARM **(ALL displayed),** then press the Up-Down Buttons for proper setting and then press the Set button to confirm and exit.

Press to increase the displayed value, in programming mode.

Press to mute the local buzzer when an ALARM occurs.

Press to decrease the displayed value, in programming mode.

Press for 3 seconds to lock the keyboard (The ''POF'' message will be displayed).

Press for 3 seconds again to unlock.

Silencing buzzer

Once the alarm signal is detected, the buzzer can be muted by pressing the key.
The alarm message and the 120V message will be displayed until the alarm condition is reset.

PARAMETERS SETTING

1. Enter the Programming Mode by pressing the keys for 3 seconds and the LED will start blinking.
2. Select the required parameter by using the keys.
3. Press the key to display its value (now only the LED is blinking).
4. Use to change its value
5. Press to store the new value and move to the next parameter.

To exit: Press or wait 15 seconds without pressing a key.

NOTE: The set value is stored upon its recording, even when the procedure is not completed by exiting the configuration menu.

The factory settings are as follows:

PARAMETER	DESCRIPTION	PRESET VALUE (By default)	RANGE
ALU	High temperature alarm setting	C : 6°C F : -12°C	« ALL » value to 150°C
ALL	Low temperature alarm setting	C : 0°C F : -25°C	-50°C to « ALU » value
Ald	Temperature alarm delay	45	0 — 255 (min)
LHt	Light timer, start after door closing	5	0 — 255 (min)
doA	Door open alarm delay (timer start after door opening)	15	0 — 255 (min)
Ot	Temperature probe calibration	0	- 12°C à 12°C

ALARM MESSAGE DESCRIPTIONS

MESSAGE	MODE	CAUSE
P1	Flashing	Probe failure
PoF	Flashing (3s)	Keyboard locked
Pon	Flashing (3s)	Keyboard unlocked
HA	Alternated with temperature	High Temperature Alarm
LA	Alternated with temperature	Low Temperature Alarm
dA	Alternated with temperature	Door open Alarm
EA	Alternated with temperature	Panic Alarm (Message and gray signal alarm) Or Fan failure alarm (message only)
Pan	Alternate with temperature	Serious external Alarm