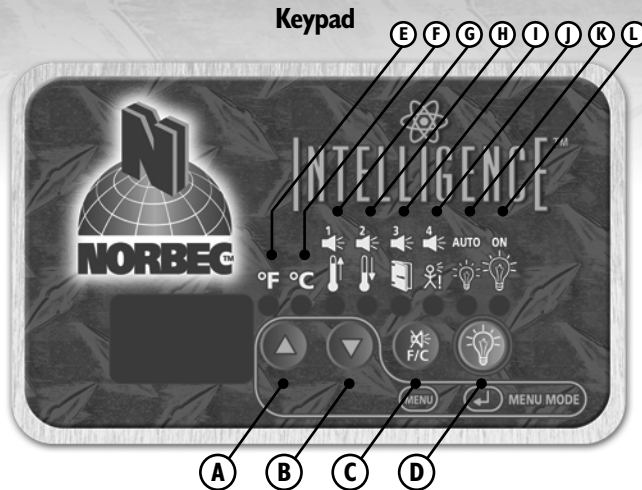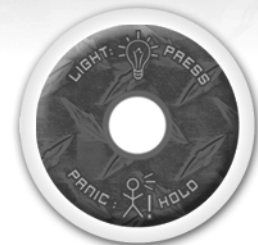# Operating Instructions, Software V04

Keypad

Inside button

The **Quick Reference Sheet** provides a quick overview of your system's main functions and the operations accessible with your digital control pad.

Light Control

Lighting in the cold room can be controlled with either **D** key from control keypad or the **Inside** button (**M**) inside the cold room.

The light control can be configured in three different modes. The "AUTO" indicator shows the status: manual (indicator turned off), semi-automatic (flashing indicator), or automatic (solid indicator). These modes are preset only through the Menu mode.

Manual:
Press key to turn light on and press a second time to turn it off.

Semi-automatic:
Press momentarily on key to turn light on. Light automatically turns off when the door is closed, after the Light Off Delay. You can also turn light off just by pressing on key again. In this mode, you can prevent light from turning off automatically by pressing on key for 1.5 seconds (you will hear two beeps). Then you must turn off the light by pressing the key again. Semi-automatic mode is then reactivated.

Automatic:
This mode allows you to turn on the light simply by opening the door of the cold room. Light automatically turns off when the door is closed, after the Light Off Delay. It also includes all the other functions of the semi-automatic mode.

The "ON" indicator is displayed when light is on. If indicator is displayed, the light is always on. If it flashes, the light will automatically turn off after a delay.

Note: *The Light Off Delay starts only after the door is closed. If door is open before the delay ends, delay will reset automatically when door is closed.*

Alarm

There are three different alarms with this module: High/Low Temperature Alarms, Door Alarm, and Panic Alarm. Each of these alarms and their parameters must be activated and set through the register list.

When an alarm goes on, the appropriate indicator flashes on the keypad and a buzzer (1 to 4 beeps, as indicated on top of the icon) is activated according to the type of alarm. You can temporarily turn off the buzzer by pressing on **C** key. Buzzer is reactivated after the Mute Alarm Disable Delay (set through the register list). You can turn off the buzzer completely for any one of these alarms just by pressing 2 times on **C** key (within one second). Buzzer is deactivated permanently until the situation is corrected. The alarm and the Dry Contact Alarm Output Type (if activated through the register list) remain active even if the buzzer is off.

This alarm (1 beep) is activated when temperature is too high, the **G** indicator flashes.

This alarm (2 beeps) is activated when temperature is too low, the **H** indicator flashes.

When you open the door, this indicator lights up. The alarm (3 beeps) is activated when the door is open for a too long time, the **I** indicator flashes.

To activate the Panic Alarm, press and hold **Inside** button (located inside the cold room) for 3 seconds. The light is automatically turned on permanently, the alarm (4 beeps) is activated and the **J** indicator flashes. The alarm is canceled when you open the door or when you press on **C** key.

Note: *as an option, a louder buzzer can be installed above the keypad. In this case, it's recommended to deactivate the beeping produced by the keypad. Simply modify register R24 in the configuration menu.*

Display of Temperature and Statistics

The Intelligence module allows you to display the temperature between -30°C and +10°C. If temperature in the cold room exceeds these values, either -30°C or +10°C will flash on display.

Setting a positive or negative offset for the temperature probe reading is possible through register R25 in the configuration menu. This adjustment affects the display and all alarm levels.

Press on **C** key to toggle between °C and °F. The **E** or **F** indicator lights up.

Press and hold **A** and **C** keys (the **G** indicator lights up) to display the highest temperature reached in the cold room. If temperature is above 10°C, "HI" will be flashing on the display.
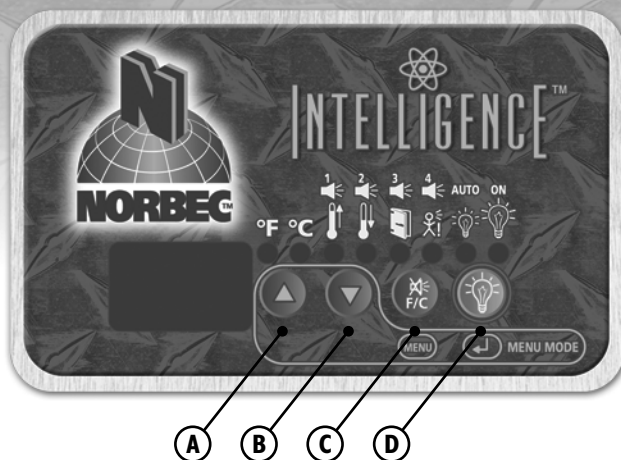
Press and hold **B** and **C** keys (the **H** indicator lights up) to display the lowest temperature reached in the cold room. If temperature is below -30°C , "LO" will be flashing on the display.

Output Accessories

This output (115 Volts) of a maximum capacity of 6.8 Amps can be configured (register R22) to control either the door defrost or the evaporator:

Register 22 = 0: The output controls the heating wire which is activated if temperature is lower than register R05. Heating level is set through register R12.

Register 22 = 1: The output supplies the evaporator fans which are deactivated when the door is opened. If the door stays opened longer than the Door Alarm Delay (R09), fans will be reactivated.

Register List

To access Menu Mode press on **C** key for 5 seconds.
The first register is displayed.

Use **A** and **B** keys to go from one register to another. The
display alternates between the register number and its value.

To modify the register, press on **D** key.
The register flashes.

Use **A** and **B** keys to modify the register.

Press on **D** key again to confirm (if you make a mistake and
you want to return to the previous value, press on **C** key).

To return to normal mode, press on **C** key for 5 seconds.
If you do not press any key for 30 seconds, the system
automatically returns to normal mode.

Register #	Description	Range *	Units	Default
R01	High Temperature Threshold	(R02+2) à 10	°C	10
R02	Low Temperature Threshold	-30 to (R01-2)	°C	-15
R03	Highest Temperature Reached (stat *)	-30 to 10 (or HI)	°C	-10
R04	Lowest Temperature Reached (stat *)	(LO or) -30 to 10	°C	10
R05	Door Defrost Deactivation Threshold	-30 to 10	°C	5
R06	Door Open Timer (seconds) (stat *)	000 to 999	Units	0
R07	Door Open Timer (thousands of seconds) (stat *)	000 to 999	Thousands	0
R08	Temperature Alarm Delay	0 to 100	Minutes	15
R09	Door Alarm Delay	0 to 100	Minutes	15
R10	Mute Alarm Disable Delay	0 to 100	Minutes	15
R11	Light Off Delay	0 to 100	Minutes	5
R12	Defrost Element Power	0 to 100	%	100
R13	Dry Contact Alarm Output Type	NC or NO	Type	NC
R14	Temperature Alarm On	ON or OFF	Status	OFF
R15	Temperature Alarm Signal To Dry Contact Output	ON or OFF	Status	ON
R16	Panic Alarm On	ON or OFF	Status	OFF
R17	Panic Alarm Signal To Dry Contact Output	ON or OFF	Status	OFF
R18	Door Alarm On	ON or OFF	Status	OFF
R19	Door Alarm Signal To Dry Contact Output (activation time equivalent to 3 times the alarm delay)	ON or OFF	Status	OFF
R20	Door Switch Type	NC or NO	Type	NC
R21	Light Control Mode (0 = manual, 1 = semi-automatic and 2 = automatic)	0, 1, 2	Type	0
R22	Output Accessories (0 = door defrost, 1 = evaporator)	0 or 1	Type	0
R23	Software Version (sys *)	R00 to R99	------	n/a
R24	Keypad Beep	ON or OFF	Status	ON
R25	Probe Offset	-10 to +10	°C	0

*   *Stat: Read-only. To erase Statistics, press and hold **A** & **B** keys.*
*   *Range: Registers R01 to R05 as well as R25 are displayed in degrees Celsius (°C) only.*
*   *Sys: This register cannot be modified nor cleared by the user.*
     It's programmed at the factory.