EcoHood™

NOVEO

INSTRUCTION MANUAL

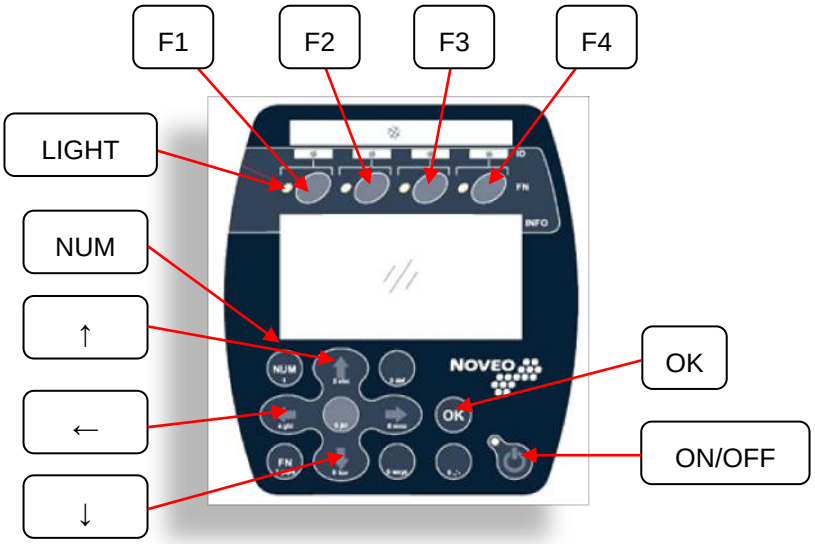
CONTROL PANEL KEYPAD

REVISED OCT. 04, 2017

INDEX

GENERAL KEYPAD INFORMATION

Function description (these functions are used in AUTO mode only (the selector is on the panel cover) :



Actual Keypad

F1 — FUNCTION 1 (change language – ENG or FR)

F2 — FUNCTION 2 (previous page)

F3 — FUNCTION 3 (next page)

F4 — FUNCTION 4 (used in certain sub-menus only)

LIGHT — LIGHT:
- GREEN light indicates the unit is in operation
- RED light indicates the unit is in sleep mode

NUM — Used to modify parameters

↑ — Scroll up in menus and sub-menus

← — Back to previous menu

↓ — Scroll down in menus and sub-menus

OK — Confirm a selection (enter)

ON/OFF — Not used

KEYPAD FUNCTIONS

All touch buttons are pressure sensitive. To select appropriate menu, or selection, simply press on the appropriate button as indicated in the instructions.

LANGUAGE: Noveo provides a user choice; English or French. To transfer from one language to another, press F1

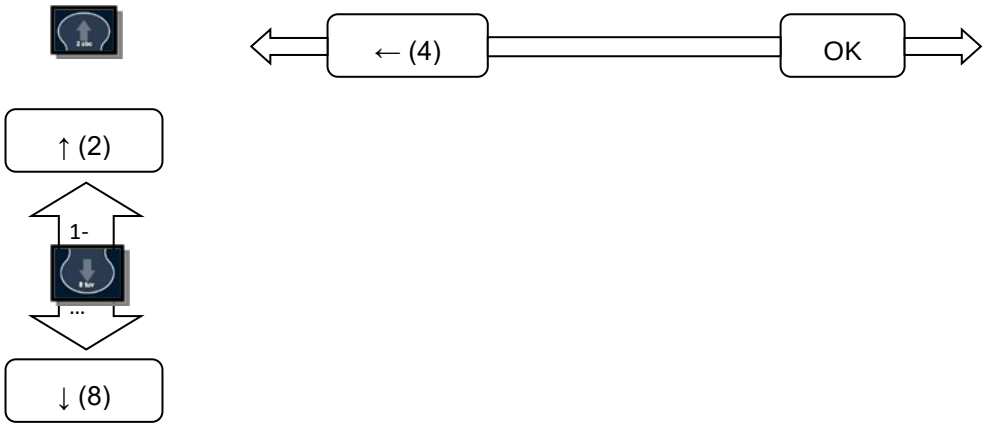
NUMERIQUE KEYS: When prompted to use numeric data, use keys number indication (see example):

This key allows for entering 5 in numeric mode

SCROLLING LOGIC:

- To select a primary menu, scroll up ↑ (2) or down ↓ (8)
- To return to the previous menu, press BACK ←(4)
- To enter a submenu, press OK
- *Scroll position is indicated by the shadow covering the appropriate number*

SCROLL EXAMPLE:



HOW TO NAVIGATE IN MENUS AND SUB-MENUS

MAIN MENU:

1. Operation Status
2. Time usage
3. Optic sensor conf.
4. Motor config.
5. Temperature config.
6. IDLE mode config.
7. Troubleshooting

1. OPERATION STATUS:

1. Evacuated Air : *(Used by NOVEO only)*

Temperature: _____°C 0%
Opacity change: 0%
Remote signal: 0%
Evacuated Air: 0%

Bar Chart

2. Device function - ECP *(Used by NOVEO only)*

2. TIME USAGE:

LANG	RZ	SAVE
100%	: 0hr	00mi
80-99%	: 0hr	00mi
60-79%	: 0hr	00mi
30-59%	: 0hr	00mi
Stdby	: 0hr	00mi
Total	: 0hr	00mi

3. OPTIC SENSOR CONF.:

1. Opacity Gain

Actual: _____
Press NUM to modify, then OK to confirm

2. Sensor alignment:

Sensor # 1
_____% MAX _____%

Bar Chart

PRESS NEXT TO GO TO SENSOR #2

Sensor # 2
_____% MAX _____%

Bar Chart

PRESS NEXT TO GO TO SENSOR #3

Sensor # 3
_____% MAX _____%

Bar Chart

HOW TO NAVIGATE IN MENUS AND SUB-MENUS … con't

4. MOTOR CONFIG.:

1. Min Motor — Actual: _____ Press NUM to modify, then OK to confirm
2. Max Motor — Actual: _____ Press NUM to modify, then OK to confirm
3. Plateau delay — Actual: _____ Press NUM to modify, then OK to confirm

5. TEMPERATURE CONFIG.:

1. Min Temperature — Actual: _____ Press NUM to modify, then OK to confirm
2. Max Temperature — Actual: _____ Press NUM to modify, then OK to confirm
3. Units — select desired measure, then press OK to confirm
   1. Celsius
   2. Fahrenheit

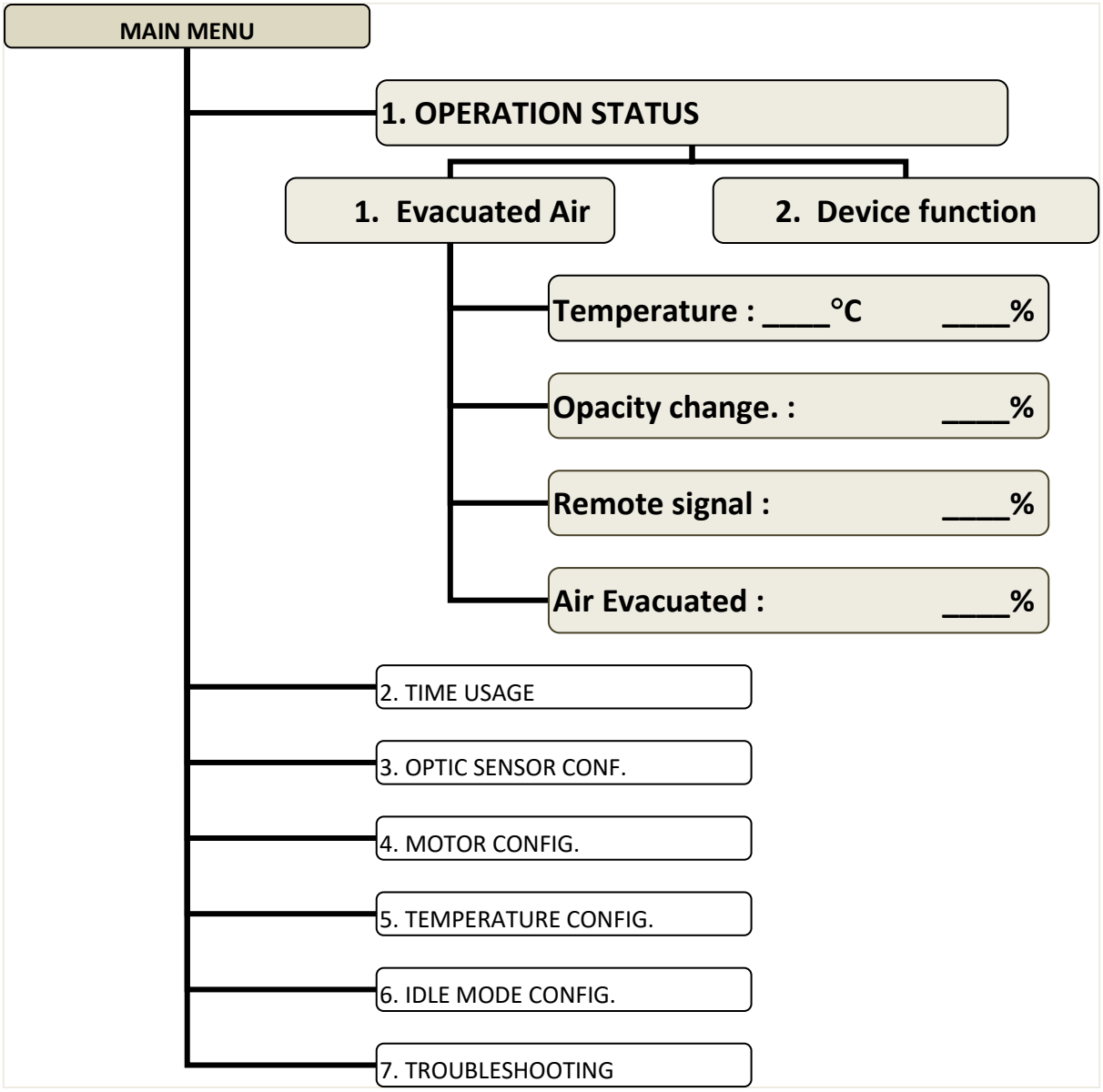
6. IDLE MODE CONFIG.:

1. Min. Output — Actual: _____ Press NUM to modify, then OK to confirm
2. Min. Temp. — Actual: _____ Press NUM to modify, then OK to confirm
3. WakeUp Temp. — Actual: _____ Press NUM to modify, then OK to confirm
4. Time before Sleep — Actual: _____ Press NUM to modify, then OK to confirm

7. TROUBLESHOOTING: Used by NOVEO only

- Signal scroll list
  - Name
  - Value

DETAILED KEYPAD FUNCTIONS



Temperature: The temperature is measured inside the hood, behind filters

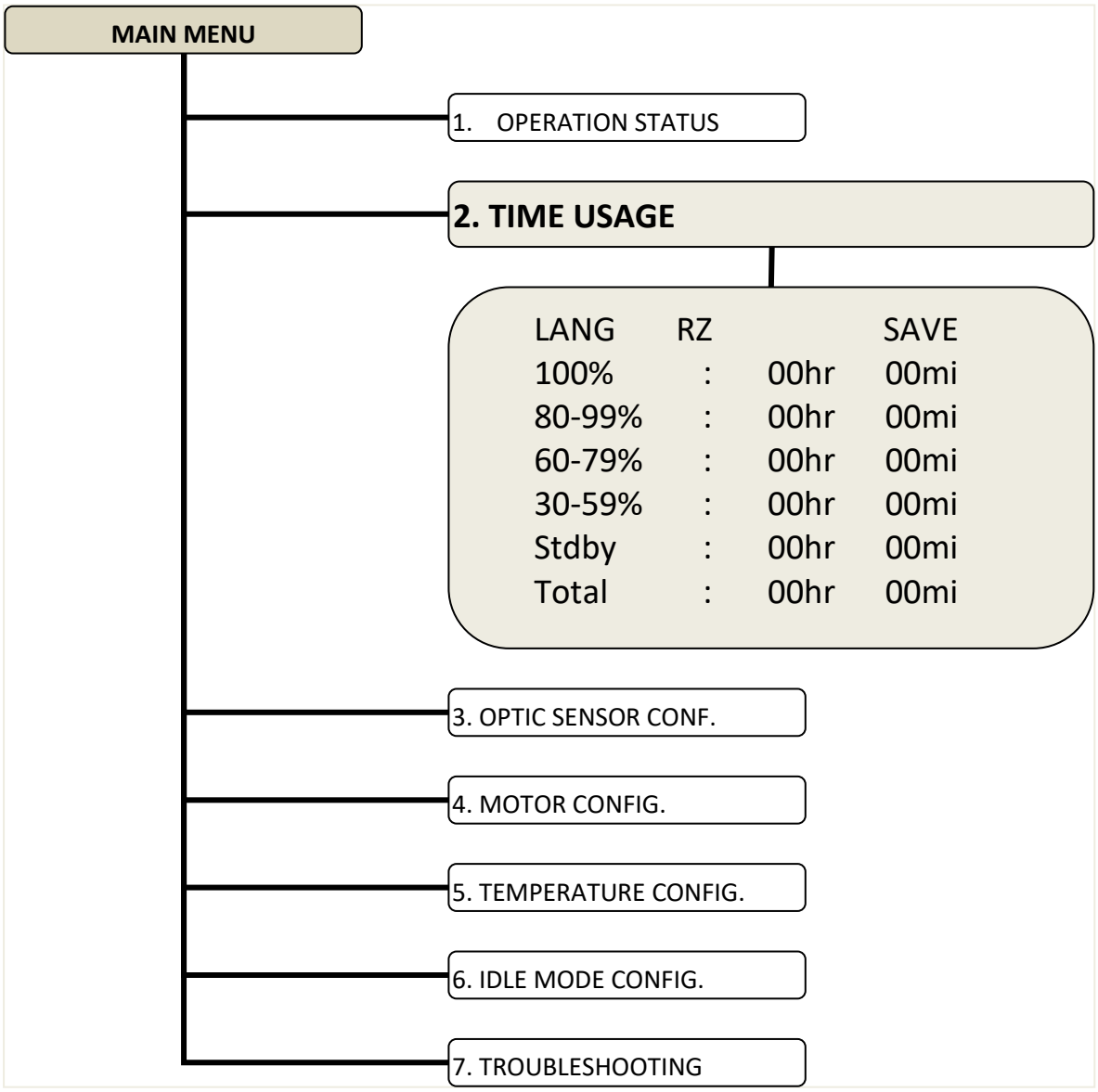
Opacity change: The percentage is indicated in inverse value (low percentage = clean air without smoke, high percentage = air with smoke generated by cooking)

Remote signal: used by NOVEO only

Evacuated Air: indicates the value in percentage of the motor speed (RPM). 0% = motor stopped, 100% = full speed OR maximum air evacuation (CFM – cubic feet per minute). CFM evacuation is proportional to motor speed

Device function: used by NOVEO only

DETAILED KEYPAD FUNCTIONS



LANG: to transfer from French to English, vice-versa

RZ: reset, put counter to zero **NOTICE – reset erases all saved data**

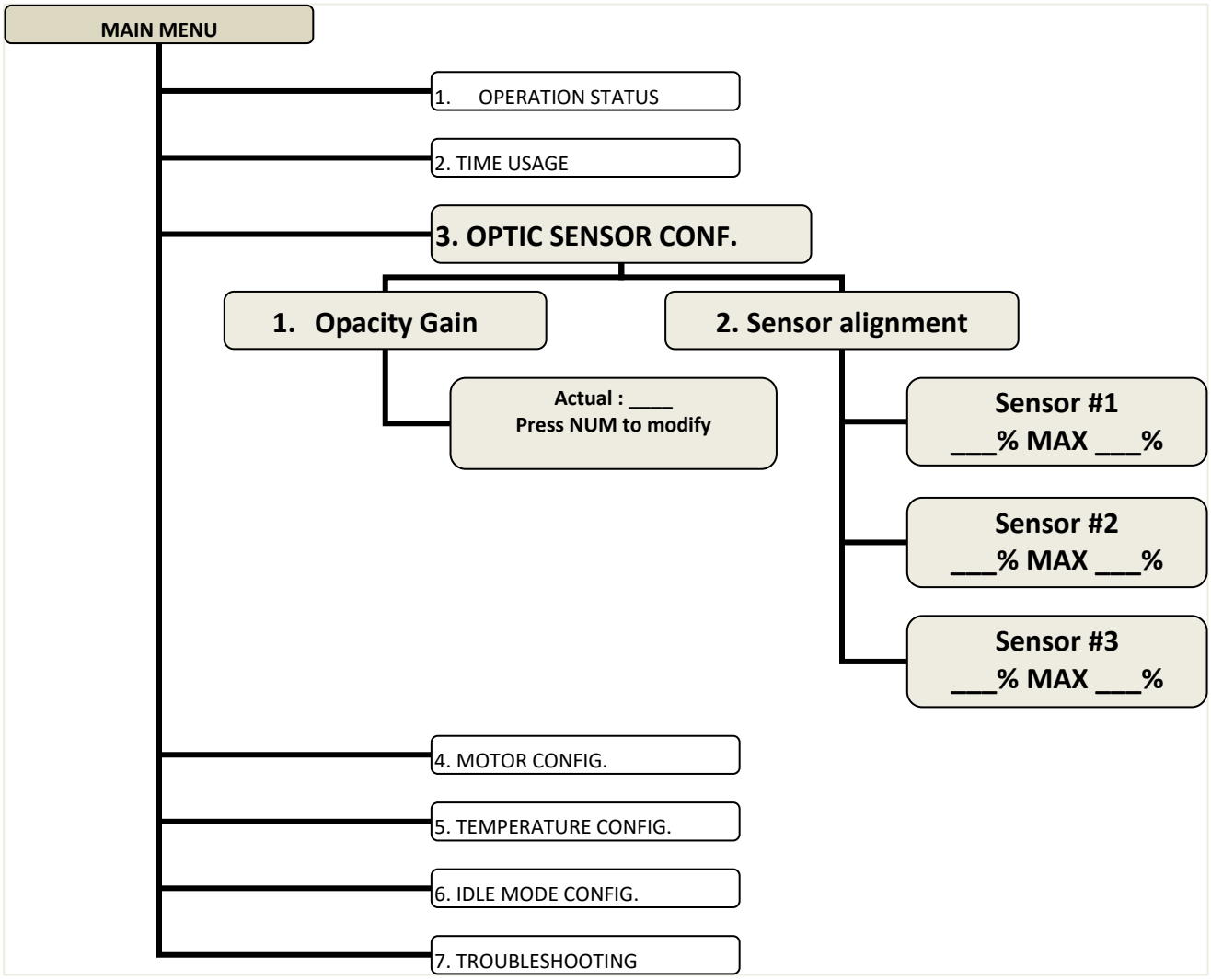
SAVE: Current data can be saved by recording information on a separate note pad or digital photo of screen. Note RZ (reset) will erase accumulated data to date, and system begins accumulating new data from zero.

100%, 80-99%, 60-79%, 30-59% exhaust (evacuation) speed: hood operation time at each evacuation speed level

Stdby: time the unit is in standby mode (see section 6.1)

Total: total accumulated clock time including hood operation time PLUS standby time (including time kitchen is closed)

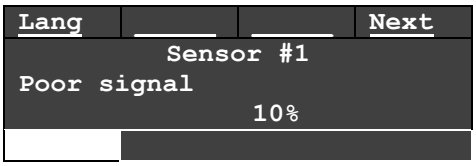
DETAILED KEYPAD FUNCTIONS



3.1 Opacity Gain : must not be modified

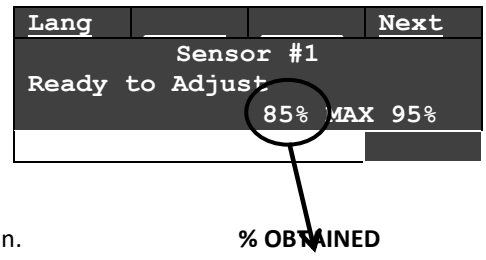
EXAMPLE :

3.2 Sensor alignment: if sensors are not aligned or there is a bad connection, screen will indicate « poor signal », when aligned it reads « ready to adjust »



Poor signal = completely disoriented (0% - 20% depends on alignment between emitter and receiver).

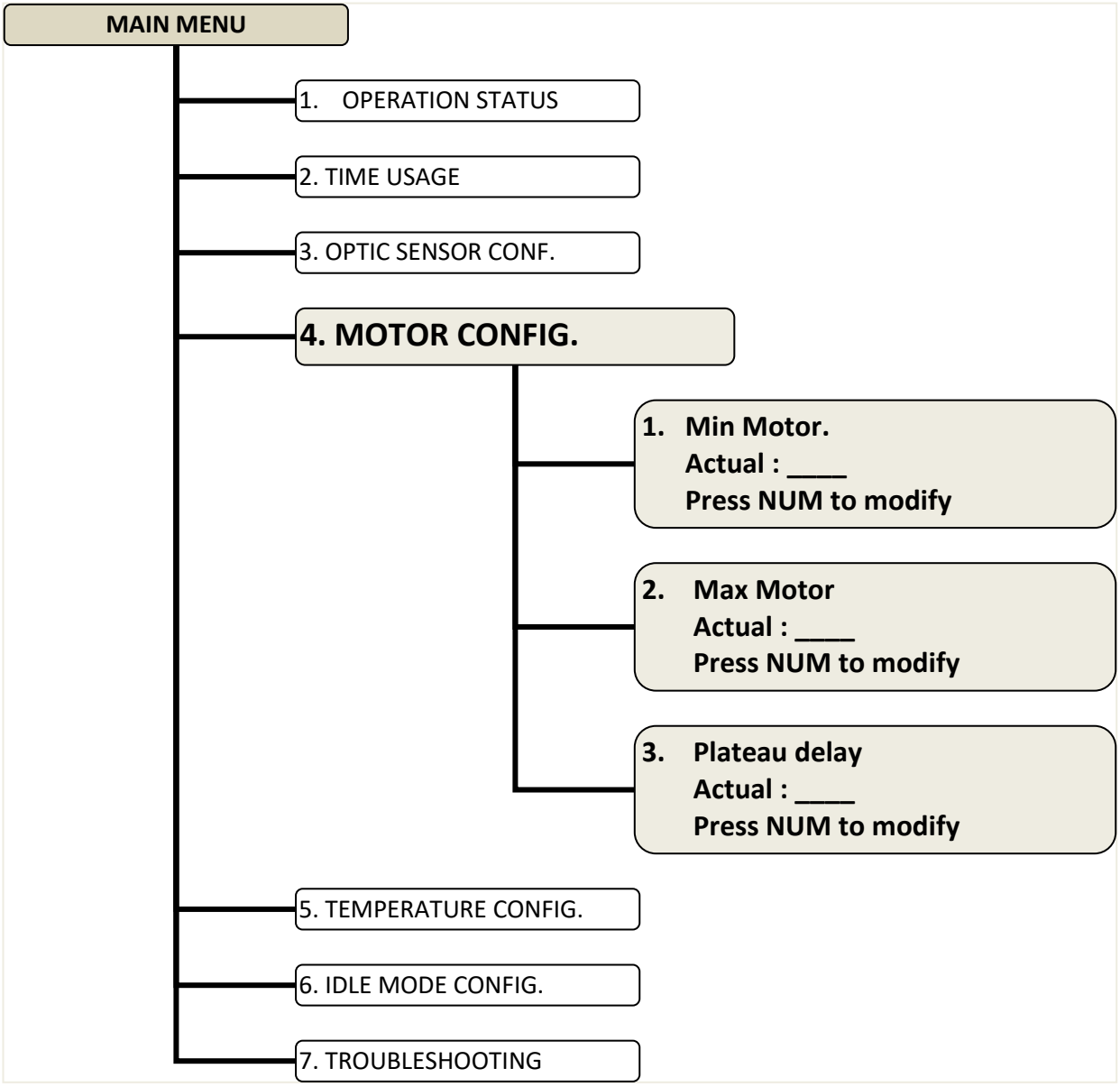
To adjust alignment, loosen set screws in the brackets holding the tube - turn the emitter and/or receiver to obtain a maximum signal, then adjust the other optical sensor. Then readjust the first to obtain alignment signal closest possible to max.



Minimum percentage to operate is 20%. Maximum percentage is 95%, but is normally not attainable

After aligning the sensors, turn unit off, wait ten (10) seconds, then turn unit back on.

DETAILED KEYPAD FUNCTIONS

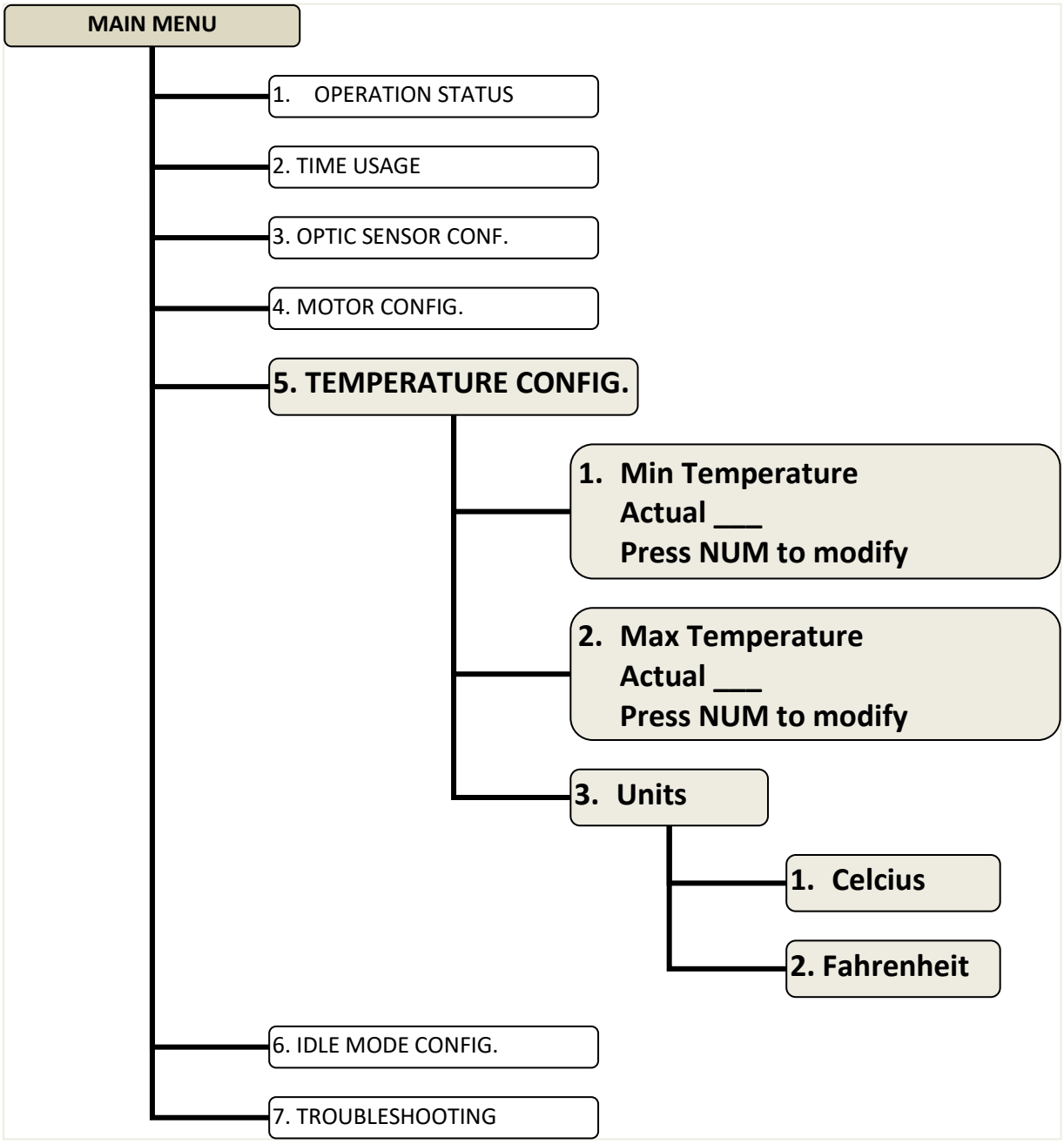


4.1 Minimum Motor Speed: minimum motor speed in operation must be sufficiently low to evacuate kitchen odours, but never less than 20%. Reducing motor speed ensures substantial energy savings

4.2 Maximum Motor Speed: maximum motor speed in operation is 100% or 60HZ

4.3 Plateau delay: the Plateau delay is activated when sensor detects a maximum of smoke (100%). When the quantity of smoke reduces, the motor continues to operate at full capacity for the time configured (adjustable from 1 to 30 seconds) before reducing the motor speed to the normal operating speed

DETAILED KEYPAD FUNCTIONS

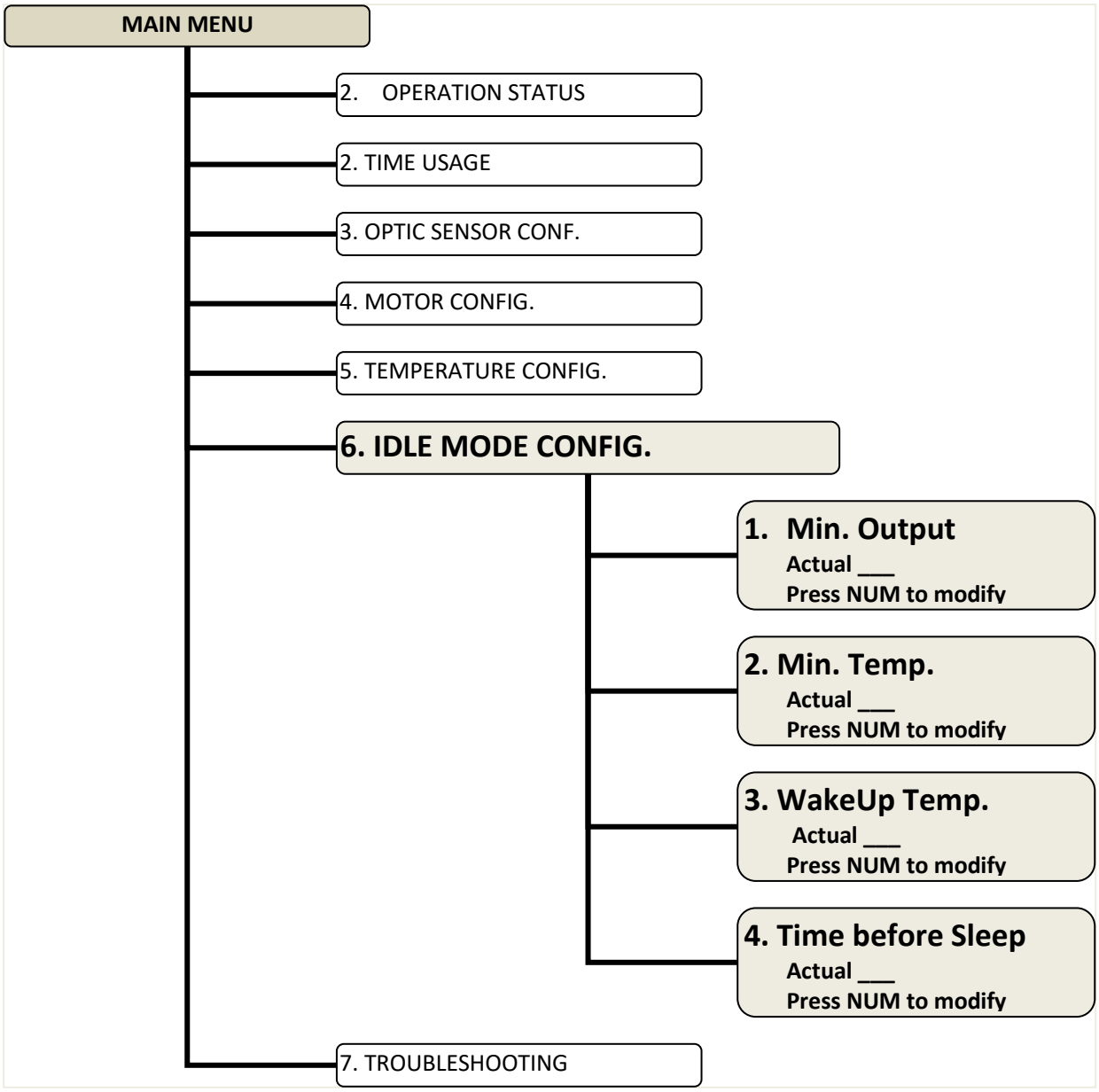


5.1 Min Temperature: minimum temperature for motor operation. The motor will operate at minimum speed (configured in section 4.1) when the minimum temperature configured is reached

5.2 Max Temperature: the motor will operate at maximum speed (100%) when the temperature configured in section 4.2 is reached

5.3 Units: select the desired temperature measure in Celsius or Fahrenheit

DETAILED KEYPAD FUNCTIONS



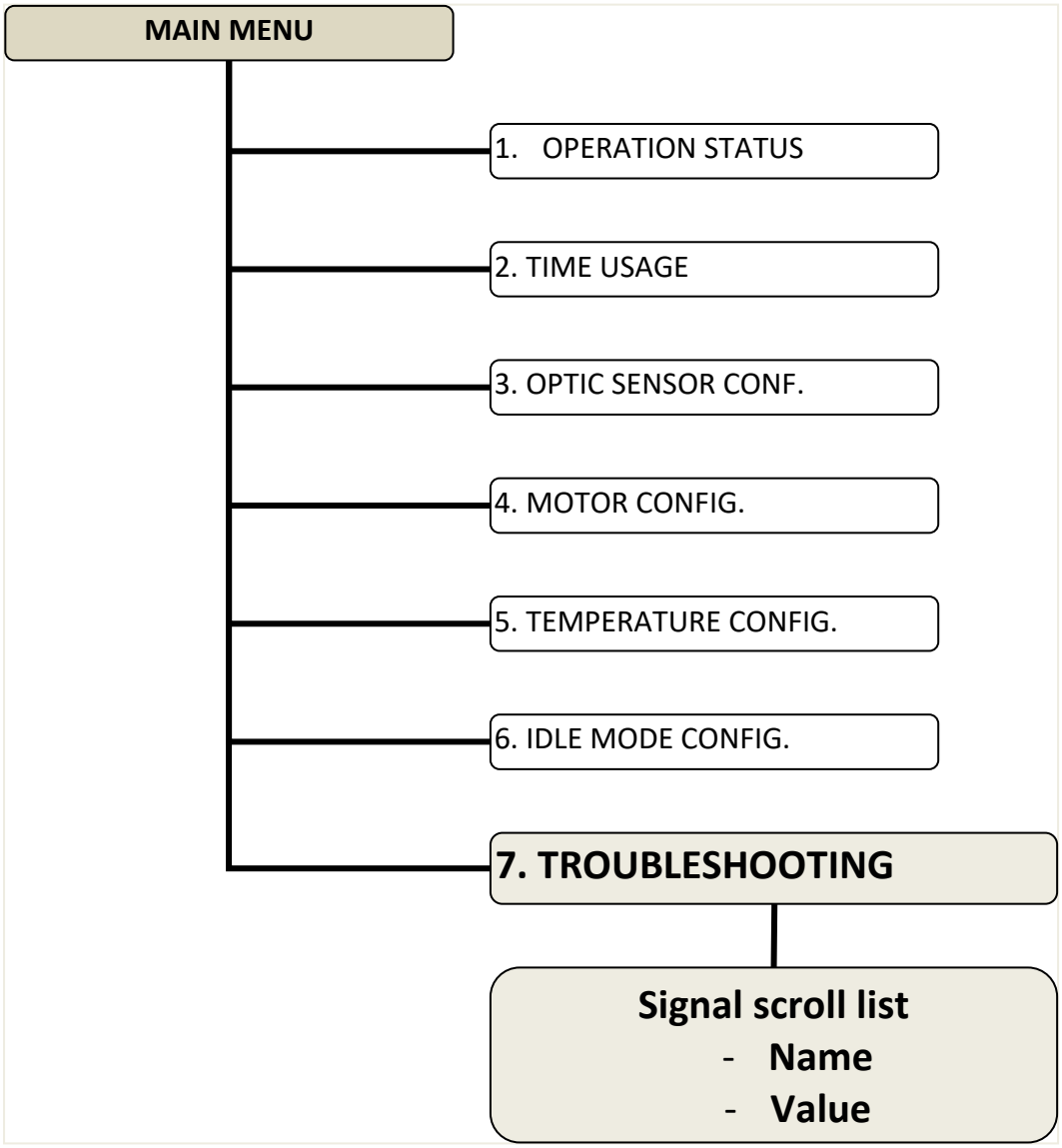
6.1 Min. Output: The motor speed in sleep mode (we suggest 0%, but in certain cases a minimum evacuation is necessary to avoid kitchen odours from entering dining area

6.2 Min. Temp.: Minimum temperature to activate Sleep mode (must be lower than minimum temperature configured in section 5.1)

6.3 WakeUp Temp.: Minimum temperature to activate the motor from sleep mode (must be higher than minimum temperature configured in section 5.1)

6.4 Time before Sleep: When minimum temperature (section 6.2) is reached, time before sleep starts (up to 99 minutes; suggested time is 5 minutes**)**

DETAILED KEYPAD FUNCTIONS



Used by NOVEO only.

FREQUENTLY ASKED QUESTIONS

1. The control panel screen does not work	- Wait a few seconds between each entry - Turn unit OFF, wait five (5) seconds, turn unit ON
2. Sometimes I observe smoke and/or steam escaping from the front of the hood. What can I do? **ATTENTION! You lose your economy and comfort when the selector switch is in "bypass"**	(Full speed) (Off) (Auto)  Turn the selector switch from auto to bypass and run exhaust at full speed. Tell your contractor what you observed.
3. The KHDS remains at maximum speed. What should I do?	**A)** Is the selector switch at the position of "bypass"? If so, select position # 1 (auto) **B)** Is the line of sight between the two (2) sensors blocked? If so, remove object **C)** During the day does sunlight fall on the receiver? If so, shield the sensor from sunlight.
4. Lighting under the hood: What kind of lamps do I install?	**CAUTION!** Do not use incandescent lamps, use only self ballasted energy saver lamps Incandescent lamps blind the sensors.
5. Since the Noveo KHDS was installed I noticed smoke escaping from ends of the hood…	Hoods should extend 6" beyond the appliances. Call your contractor and have end panels installed
6. Can I manually shut off the hood at night and start manually in the morning?	Yes! Turn the selector switch to off at night then to auto (1) in the morning. (NOT RECOMMENDED)
7. The selector switch is in auto but the hood doesn't wake up quick enough.	Imitate smoke, wave your hand in front of the optical sensors to activate exhaust. If this situation persists, you should lower the 'wake' temperature setting. You may have to lower the 'sleep' temperature setting accordingly.
8. The sensor head rotates on the holding tube or the holding tube is loose.	First, firmly tighten the sensor on the holding tube then slightly loosen the holding tube locking set screws. Follow the steps for item # 3.2, page 9 "Optic Sensor Conf."

DEFINITIONS:

ECOHOOD: Eco-energy saving system that automatically varies the volume of heated / cooled air exhausted by commercial hoods and drastically reduces energy consumption associated with cooking by using opacity and temperature sensors to automatically monitor the smoke and/or heat generated in a kitchen hood. The system analyses the temperature and quantity of smoke and modulates the exhaust.

OPACITY: Cooking produces contaminants, namely smoke and grease vapours. The contaminants produce interference in the air which can be measured in percent (%) opacity.

Opacity percentage is indicated in inverse value. Illustration: 0% opacity means perfectly clean air and the light source is perfectly visible. 100% opacity means the light source is blocked.

When the emitter/receiver is not aligned, le signal indicates *poor signal 0%*. 11% is the minimum required for operation.

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