



Ecomaster Basic DAH user manual

Reference: MH-010



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Date: 10-10-18
Category: Manual

Document privacy		
PU	Public	X
RE	Restricted	
CO	Confidential	

Revision control			
Version	Date	Change	Comments
V0	06-03-11	Hispacold	First version
V1	10-10-18	Pablo García	New format
V2	16-05-2018	Pablo García	Software version notification included

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1. Functional description

Ecomaster basic DAH is a control node used in extremely cold weather, when an additional heating device is needed in order to increase heating capability of the driver. This node controls one additional heater behind the driver's seat and other located over the main door


The keyboard of Ecomaster Basic DAH control node allows modifying the following variables


- Air flow temperature for the additional heaters
- Ventilation speed (Driver additional heater)
- Ventilation speed (Main door additional heater).




Press  (1) key in order to increase the air flow temperature

Press  (2) key in order to decrease the air flow temperature

Press  (3) key in order to modify the air flow speed of the main door additional heater. Two different speeds are available (led n°6 green coloured – minimum speed, led n°6 red coloured, maximum speeds)



Press  (4) key to turn on the additional heater fan located behind the driver seat. Led light n° 7 green coloured shows that the heater is on

When the main door is open, the control node can activate the maximum speed of the additional heater but this could be problematic depending of the season. For this reason, the driver can switch the behaviour of the control node to summer mode (additional heater of the main door permanently off when the door is open) or Winter mode (additional heater activated when the door is open)

In order to select the mode,  (3) key must be pressed at least 6 secs. The led n°6 begins to blink indicating the selected mode:

- Led n°6 blinking with green colour: Winter mode
- Led n°6 blinking with red colour: Summer mode

1.1. Software version

Press  y  keys during 5 secs. One LED light from the bar will light during 20 sec in order to show the software version (Number starts from the bottom)

For example, if the software version is 4.00, the fourth LED light from the bar will light.

If software versión is a BETA versión, for example 4.00B, the first led of led bar (begining from above) will blink:



2. Errors diagnosis

Each time that the control node receive electric supply, automatically checks every output. If the control detects any problem, it will show the error indicated in LED bar (Table 2.1). After that, the control node will activate the outputs without problems

To entry on diagnosis mode, press  (1) y  (2) keys at the same time

For other problems related with the control node:

- Minimum speed short-circuit (main door additional heater): Only the maximum speed is available and the control light n° 6 as a green blinking light
- Maximum speed short-circuit (main door additional heater): Only the minimum speed is available and the control light n° 6 as a red blinking light
- Short-circuit on driver's seat additional heater: Blinking led n°7

LED	ERROR
1*	Valve check
2	Short-circuit to positive on main door additional heater fans (minimum speed)
3	Short-circuit to GND on main door additional heater fans (minimum speed)
4	Short-circuit to positive on main door additional heater fans (maximum speed)
5	Short-circuit to GND on main door additional heater fans (maximum speed)
6	Short-circuit to positive on driver's seat additional heater fan
7	Short-circuit to GND on driver's seat additional heater fan
8	Water valve error
9	Return of valve position error (emergency mode)
10	Internal error

*(starting from the bottom)