

| LABEL | MIN. | MAX. | U.M. | DEF. | ENERGY SAVING (the working setpoint becomes r8) |
|-------|------|------|------------------------|------|---|
| Hr1 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | 0.0 | Energy Saving cycle activation time |
| Hr2 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | 0.0 | Energy Saving cycle length |

| LABEL | MIN. | MAX. | U.M. | DEF. | REAL TIME DEFROST |
|-------|------|------|------------------------|------|--|
| Hd1 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | first defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |
| Hd2 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | second defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |
| Hd3 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | third defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |
| Hd4 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | fourth defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |
| Hd5 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | fifth defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |
| Hd6 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | sixth defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |

(8) the unit of measure depends on the parameter /8

(9) damin = 10 minutes

(10) unless the evaporator temperature is below the defrost end temperature you have set with the parameter d2, the defrost will not be activated

(11) once you have modified the value of the parameter, you will have to switch off the power supply of the instrument

(12) if the parameter has value 0, the defrost will end by time (parameter d3); if the parameter F7 has value 3 or 4, the evaporator fan will work in accordance with the compressor, except what you have set with the parameters F4 and F5

(13) if the time the compressor is ON is lower than 30 s, the compressor will never be ON; if the cabinet probe failure takes place during a compressor delay, the compressor will be forced OFF for 1 min; the parameter C1 sets the minimum delay between the end of the cabinet probe failure and the following activation of the compressor (if the parameter C1 has value 0, the compressor will be forced off for 2 min)

(14) if at the moment of the defrost activation the cabinet temperature is below the value "working setpoint + r0", the instrument will not show temperatures above that value; if at the moment of the defrost activation the cabinet temperature is above the value "working setpoint + r0", the instrument will not show the increases of the temperature (if the increase takes place below the value "working setpoint + r0", look at the previous case); the instrument restores the normal operation once the after dripping evaporator fan delay ends and the cabinet temperature falls below the freeze temperature

(15) if at the moment of the defrost activation the compressor is ON since a time lower than the one you have set with the parameter, the compressor will be forced ON for a time such as to finish the time you have set with the parameter

(16) if the lower temperature alarm takes place during the count of the delay, this last will be cleared

(17) if the temperature alarm does not disappear at the end of the times you have set with the parameters A3 and AA, it will further be excluded for the time you have set with the parameter A6; if the temperature alarm takes place during the defrost and does not disappear at the end of the time you have set with the parameter A7, it will further be excluded for the time you have set with the parameter A6

(18) the evaporator fan stop temperature is "cabinet temperature - F1"; you always have to consider the parameter F1 with positive sign.

FK 216A

ON-OFF digital controller for ventilated refrigerating units

Version 1.00 of March the twentieth, 2003

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PT

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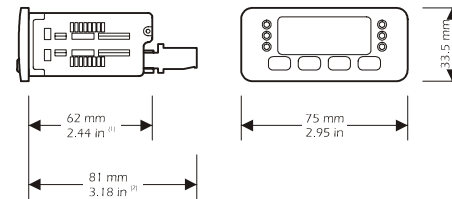
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ENGLISH

1 PREPARATIONS

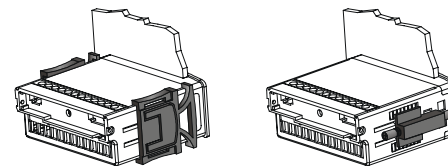
1.1 How to install the instrument

Panel mounting, panel cut out 71 x 29 mm (2.79 x 1.14 in), with click brackets (they are supplied by the builder) or screw brackets (by request).



(1) maximum depth with screw terminal blocks (by request)

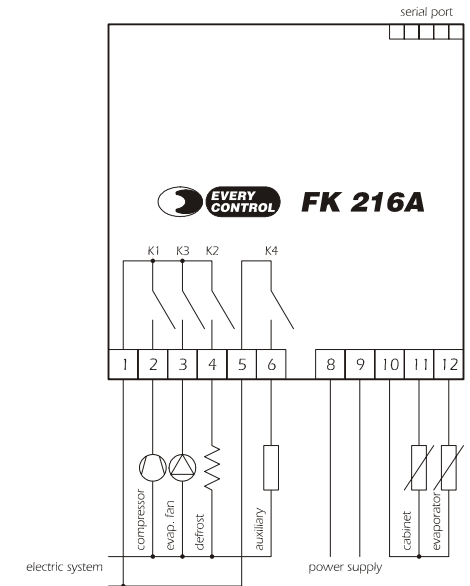
(2) maximum depth with extractable terminal blocks (standard model).



installation with click brackets (on the left-hand side, they are supplied by the builder)

and screw brackets (on the right-hand side, by request); if you are using screw brackets, you have to moderate the clamping torque, in order not to damage the box and screw brackets.

1.2 Electrical connection



2 OPERATION

2.1 Preliminary information

During the normal operation the instrument shows the cabinet temperature.

2.2 How to silence the buzzer

If you have to silence the buzzer:

▪ press

2.3 How to activate the defrost by hand

If you have to activate the defrost by hand:

▪ press for 4 s

Unless the evaporator temperature is below the defrost end temperature you have set with the parameter d2, the defrost will not be activated.


2.4 How to activate/deactivate the auxiliary output

If you have to activate/deactivate the auxiliary output:

▪ press

3 REAL TIME CLOCK

3.1 How to set the clock

Press  for 2 s : the instrument will show **P r 2**

Press  or  for selecting **r t c**

If you have to modify the value of the hour:



▪ press  and  or 

If you have to modify the value of the minutes:

▪ release  and press it again during the modification of the hour, then ...

▪ press  or 

If you have to quit the procedure:

▪ press  or  as long as the instrument shows the cabinet temperature or do not operate for about 30 s.

4 WORKING SETPOINT

4.1 How to set the working setpoint

If you have to modify the working setpoint value:

▪ press  and  or  ⁽³⁾ ⁽⁴⁾

⁽³⁾ you can set the working setpoint between the limits you have set with the parameters r1 and r2

⁽⁴⁾ unless the parameter r5 has value 0, you can not modify the working setpoint.

5 CONFIGURATION PARAMETERS

5.1 How to set the configuration parameters

Configuration parameters are arranged on two levels.

If you have to gain access the first level:

▪ press  and  for 4 s : the instrument will show **P r**

If you have to select a parameter:

▪ press  or 




If you have to modify the value of the parameter:

▪ press  and  or 

If you have to gain access the second level:

▪ gain access the first level

▪ press  or  for selecting **P r**

▪ press  and  or  for setting "**-19**"

▪ press  and  for 4 s : the instrument

will show **r 0**

If you have to quit the procedure:

▪ press  and  for 4 s  or do not operate for about 60 s.



6 ADDITIONAL FUNCTIONS

6.1 How to gain access the additional functions

If you have to gain access the additional functions:

▪ press  for 2 s : the instrument will show **P r 2**



If you have to quit the procedure:


▪ press  or  as long as the instrument shows the cabinet temperature or do not operate for about 30 s.

6.2 Evaporator temperature showing

If you have to show the evaporator temperature:

▪ gain access the additional functions

▪ press  or  for selecting **P r 2** ⁽⁵⁾

▪ press 


⁽⁵⁾ unless the parameter /Ab has value 1, the label Pr2 will not be showed.

6.3 Temperature alarm storage

If you have to show the temperature the instrument has stored during the lower temperature alarm:

▪ gain access the additional functions

▪ press  or  for selecting **AL** ⁽⁶⁾

▪ press 

If you have to show the temperature the instrument has stored during the upper temperature alarm:



▪ gain access the additional functions



▪ press  or  for selecting **AH** ⁽⁷⁾

▪ press 

If you have to erase the temperature the instrument has stored during the lower or upper temperature alarm:

▪ gain access the additional functions

▪ press  or  for selecting **AL** or **AH**

▪ press  for 4 s : the instrument will show **--**

⁽⁶⁾ unless the parameter A8 has value 1 or 3, the label AL will not be showed

⁽⁷⁾ unless the parameter A8 has value 2 or 3, the label AH will not be showed.

| | | | | | |
|-----|-----|------|----------------------|------|--|
| A2A | 0 | 2 | — | 1 | kind of lower temperature alarm (0 = it will never be activated, 1 = lower temperature alarm relative to the working setpoint, 2 = absolute lower temperature alarm) |
| A1b | -99 | 99.9 | °C/°F ⁽⁸⁾ | 10.0 | upper temperature alarm threshold; look at A2b as well |
| A2b | 0 | 2 | — | 1 | kind of upper temperature alarm (0 = it will never be activated, 1 = upper temperature alarm relative to the working setpoint, 2 = absolute upper temperature alarm) |
| A3 | 0 | 240 | min | 120 | upper temperature alarm exclusion time since you turn the instrument ON (it is important if A2b ≠ 0) ⁽¹⁶⁾ |
| A6 | 0 | 240 | min | 5 | temperature alarm exclusion time (it is important if A2A and/or A2b ≠ 0) ⁽¹⁷⁾ |
| A7 | 0 | 240 | min | 15 | upper temperature alarm exclusion time since the end of the after dripping evaporator fan delay (since the end of F5, it is important if A2b ≠ 0) ⁽¹⁶⁾ |
| A8 | 0 | 3 | — | 0 | kind of temperature alarm the instrument has to store (it is important if A2A and/or A2b ≠ 0; 0 = it will never be stored, 1 = lower temperature alarm, 2 = upper temperature alarm, 3 = both the lower temperature alarm and the upper one) |
| A9 | 1 | 15 | s | 1 | time between two records of the temperature alarm in succession (it is important if A2A and/or A2b ≠ 0 and A8 ≠ 0) |
| AA | 0 | 240 | min | 0 | temperature alarms relative to the working setpoint exclusion time since the activation/end of the Energy Saving cycle |

| LABEL | MIN. | MAX. | U.M. | DEF. | EVAPORATOR FAN |
|-------|------|------|----------------------|------|---|
| F1 | -99 | 99.9 | °C/°F ⁽⁸⁾ | -1.0 | evaporator fan stop temperature (evaporator temperature, it is important if /Ab = 1 and F7 = 3 or 4); look at F6 as well |
| F2 | 0.1 | 15.0 | °C/°F ⁽⁸⁾ | 2.0 | hysteresis (differential, it is relative to F1, it is important if /Ab = 1 and F7 = 3 or 4) |
| F4 | 0 | 2 | — | 0 | evaporator fan action during the defrost and dripping (0 = it will be forced OFF, 1 = it will be forced ON, 2 = it will work in accordance with F7) |
| F5 | 0 | 15 | min | 2 | after dripping evaporator fan delay |
| F6 | 0 | 1 | — | 0 | kind of evaporator fan stop temperature (it is important if /Ab = 1 and F7 = 3 or 4; 0 = absolute evaporator fan stop temperature, 1 = evaporator fan stop temperature relative to the cabinet temperature) ⁽¹⁸⁾ |
| F7 | 0 | 4 | — | 1 | evaporator fan action during the normal operation (0 = it will be forced OFF; 1 = it will be forced ON, 2 = it will work in accordance with the compressor, 3 = it will work in accordance with F1 and F2, 4 = if the compressor is ON, it will work in accordance with F1 and F2, if the compressor is OFF, it will be forced OFF) |

| LABEL | MIN. | MAX. | U.M. | DEF. | SERIAL NETWORK (EVCOBUS) |
|-------|------|------|------|------|--|
| L1 | 1 | 15 | — | 1 | instrument address |
| L2 | 0 | 7 | — | 0 | instrument group |
| L4 | 0 | 3 | — | 1 | baud rate (0 = 1,200 baud, 1 = 2,400 baud, 2 = 4,800 baud, 3 = 9,600 baud) |

| | | | | | |
|----|-----|------|----------------------|------|---|
| r1 | -99 | r2 | °C/°F ⁽⁸⁾ | -50 | minimum value you can assign to the working setpoint |
| r2 | r1 | 99.9 | °C/°F ⁽⁸⁾ | 50.0 | maximum value you can assign to the working setpoint |
| r5 | 0 | 1 | — | 0 | working setpoint modification lock-out (1 = YES) |
| r8 | -99 | 99.9 | °C/°F ⁽⁸⁾ | 0.0 | auxiliary working setpoint (it is the working setpoint during during the Energy Saving cycle) |





| LABEL | MIN. | MAX. | U.M. | DEF. | COMPRESSOR PROTECTION |
|-------|------|------|------|------|--|
| C0 | 0 | 240 | min | 0 | minimum delay between you turn the instrument ON and the first compressor activation |
| C1 | 0 | 240 | min | 5 | minimum delay between two compressor activation in succession |
| C2 | 0 | 240 | min | 3 | minimum delay between the compressor gets OFF and the following activation |
| C4 | 0 | 1 | — | 0 | fixed delay since the compressor gets ON and OFF (1 = YES, for 3 s) |
| C5 | 1 | 240 | min | 10 | cycle time for the compressor activation during the cabinet probe alarm |
| C6 | 0 | 100 | % | 50 | percentage of C5 the compressor is ON during the cabinet probe failure ⁽¹³⁾ |

| LABEL | MIN. | MAX. | U.M. | DEF. | DEFROST |
|-------|------|------|----------------------|------|--|
| d0 | 0 | 99 | h | 8 | defrost interval (it is important if dE ≠ 3); look at dE as well ⁽¹⁰⁾ (0 = the defrost will never automatically be activated) |
| d1 | 0 | 1 | — | 0 | kind of defrost (0 = electric defrost, 1 = hot gas defrost) |
| d2 | -99 | 99.9 | °C/°F ⁽⁸⁾ | 2.0 | defrost end temperature (evaporator temperature, it is important if /Ab = 1) |
| d3 | 0 | 99 | min | 30 | defrost maximum length (0 = the defrost will never be activated) |
| d4 | 0 | 1 | — | 0 | defrost activation every time you turn the instrument ON (1 = YES) ⁽¹⁰⁾ |
| d5 | 0 | 99 | min | 0 | delay between you turn the instrument ON and the defrost activation (it is important if d4 = 1) |
| d6 | 0 | 1 | — | 1 | freeze of the temperature showed by the instrument during the defrost (1 = YES) ⁽¹⁴⁾ |
| d7 | 0 | 15 | min | 2 | dripping time |
| d9 | 0 | 1 | — | 0 | compressor protections cleaning at the moment of the defrost activation (it is important if d1 = 1; 1 = YES) |
| dE | 0 | 3 | — | 0 | defrost interval count mode; look at d0 as well (0 = the instrument counts the working time, 1 = the instrument counts the sum of the times the compressor is ON, 2 = the instrument counts the sum of the times the evaporator temperature is below dF, 3 = real time defrost, the defrost will be activated at the times you have set with the parameters Hd1 ... Hd6) |
| dF | -99 | 99.9 | °C/°F ⁽⁸⁾ | 0.0 | defrost interval count freeze threshold (evaporator temperature, it is important if /Ab = 1 and dE = 2) |
| dP | 0 | 99 | min | 0 | minimum time the compressor must have been ON at the moment of the defrost activation in order that the defrost can be activated (it is important if d1 = 1) ⁽¹⁵⁾ |

| LABEL | MIN. | MAX. | U.M. | DEF. | ALARMS |
|-------|------|------|----------------------|------|---|
| A0 | 0.1 | 15.0 | °C/°F ⁽⁸⁾ | 2.0 | hysteresis (differential, it is relative to A1A and A1b, it is important if A2A and/or A2b ≠ 0) |
| A1A | -99 | 99.9 | °C/°F ⁽⁸⁾ | -10 | lower temperature alarm threshold; look at A2A as well |



7 SIGNALS

7.1 Signals

| LED | MEANING |
|---|---|
|  | Compressor LED if it is lighted, the compressor will be ON if it flashes, a compressor delay will be running (look at the parameters C0, C1, C2 and C4) |
|  | Defrost LED if it is lighted, the defrost output will be activated if it flashes: ▪ a defrost delay will be running (look at the parameters C0, C1, C2 and C4) ▪ the dripping will be running (look at the parameter d7) ▪ the freezing fluid heating will be running (look at the parameter dP) |
|  | Evaporator fan LED if it is lighted, the evaporator fan will be ON if it flashes, the after dripping evaporator fan delay will be running (look at the parameter F5) |
|  | Temperature alarm storage LED if it flashes, the instrument will have stored the lower and/or upper temperature alarm |
| aux | Auxiliary output LED if it is lighted, the auxiliary output will be activated |

8 ALARMS

8.1 Alarms

| CODE | REASONS | REMEDIES | EFFECTS |
|---|---|--|--|
|  | there is the corruption of the configuration data of the memory of the instrument | switch off the power supply of the instrument; unless the alarm disappears, you will have to change the instrument | ▪ you can not gain access the setting procedures ▪ all outputs will be forced OFF |
|  | ▪ the kind of cabinet probe you have connected is not right ▪ the cabinet probe plays up | ▪ look at the parameter /0 ▪ test the integrity of the probe ▪ test the instrument-probe connection | ▪ the compressor will work in accordance with the parameters C5 and C6 |

| | | |
|--|--|---|
| ▪ the connection instrument-cabinet probe is wrong | ▪ test the temperature close to the probe (it has to be between the limits allowed by the working range of the instrument) | ▪ if the defrost is running, it will immediately end ▪ the defrost will never be activated |
|--|--|---|

E I

| | | | |
|------------------------|---|---|---|
| evaporator probe alarm | ▪ the kind of evaporator probe you have connected is not right ▪ the evaporator probe plays up | ▪ look at the parameter /0 ▪ test the integrity of the probe ▪ test the instrument-probe connection | ▪ if the parameter dE has value 2, the instrument will work as if the parameter had value 0 ▪ if the parameter F7 has value 3 or 4, the evaporator fan will work in accordance with the compressor, except what you have set with the parameters F4 and F5 ▪ the defrost will end by time (param. d3) |
|------------------------|---|---|---|

AH

| | | |
|--|--|------------|
| the cabinet temperature is outside the limit you have set with the parameter A1b | test the temperature close to the probe (look at the parameters A0, A1b and A2b) | no effects |
|--|--|------------|




AH

| | | |
|---|--|------------|
| there has been an upper temperature alarm for 3 s every 4 | look at the parameters A0, A1b, A2b, A8 and A9 | no effects |
|---|--|------------|



AL

| | | |
|--|--|------------|
| the cabinet temperature is outside the limit you have set with the parameter A1A | test the temperature close to the probe (look at the parameters A0, A1A and A2A) | no effects |
|--|--|------------|

| | | | |
|--|--|--|--|
|  for 3 s every 4  | there has been a lower temperature alarm | look at the parameters A0, A1A, A2A, A8 and A9 | no effects |
|  real time clock alarm | there is the corruption of the data of the clock of the instrument | set the clock again | <ul style="list-style-type: none"> if the parameter dE has value 3, the instrument will work as if the parameter had value 0 the Energy Saving cycle will never be activated |

The instrument shows the indications above alternated with the cabinet temperature, except the indication "E2" (it flashes) and "E0" (it is alternated with the indication "- - -") and the buzzer utters an intermittent beep.

9 TECHNICAL DATA

9.1 Technical data

Box: self-extinguishing grey.

Size: 75 x 33.5 x 81 mm (2.95 x 1.31 x 3.18 in) the model with extractable terminal blocks (standard model), 75 x 33.5 x 62 mm (2.95 x 1.31 x 2.44 in) the model with screw terminal blocks (by request).

Installation: panel mounting, panel cut out 71 x 29 mm (2.79 x 1.14 in), with click brackets (they are supplied by the builder) or screw brackets (by request).

Frontal protection: IP 65.

Connections: extractable terminal blocks with pitch 5 mm (0.19 in, standard model) for cables up to 2.5 mm² (0.38 sq in, power supply, inputs and outputs) or screw terminal blocks with pitch 5 mm (0.19 in, by request) for cables up to 2.5 mm² (0.38 sq in, power supply, inputs and outputs), 5 poles single line male connector with pitch 2.5 mm (0.09 in, serial port).

Ambient temperature: from 0 to 55 °C (32 to 131 °F; 10 ... 90% of relative humidity without condensate).

Power supply: 12 Vac/dc, 50/60 Hz, 1.5 VA.

Clock data maintenance without power supply: 24 hours (the instrument must have been ON for 2 min at least).

Alarm buzzer: included.

Measure inputs: 2 (cabinet and evaporator probe) for PTC or NTC probes.

Working range: from -50 to 99.9 °C (-58 to 212 °F) for PTC probe, from -40 to 99.9 °C (-40 to 212 °F) for NTC probe.

Setpoint range: from -99 to 99.9 °C (-99 to 99 °F).

Resolution: 1 °F with unit of measure in Fahrenheit, 0.1 or 1 °C with unit of measure in Celsius.

Display: one red LED 3-digit display 13.2 mm (0.51 in) high, output status indicators, temperature alarm storage indicator.

Outputs: 4 relays: one 8 A @ 250 Vac relay for one ½ HP @ 230 Vac compressor control (NO contact), one 8 A @ 250 Vac relay for evaporator fan control (NO contact), one 8 A @ 250 Vac relay for defrost system control (NO contact) and one 8 A @ 250 Vac relay for auxiliary load control (NO contact).

Kind of defrost: electric and hot gas defrost.

Defrost control: defrost interval, defrost end temperature, defrost maximum length and defrost interval count mode (automatic and by hand).

Serial port: TTL with EVCOBUS communication protocol (for the configurator/cloner system CLONE and supervision system RICS).

10 WORKING SETPOINT AND CONFIGURATION PARAMETERS

10.1 Working setpoint

| LABEL | MIN. | MAX. | U.M. | DEF. | WORKING SETPOINT |
|-------|------|----------------------|------|------------------|------------------|
| r1 | r2 | °C/°F ⁽⁸⁾ | 0.0 | working setpoint | |

10.2 First level parameters

| LABEL | MIN. | MAX. | U.M. | DEF. | PASSWORD |
|-------|------|------|------|------|----------|
| PA | -55 | 99 | — | 0 | password |

| LABEL | MIN. | MAX. | U.M. | DEF. | MEASURE INPUTS |
|-------|------|------|----------------------|------|---|
| /1A | -10 | 10.0 | °C/°F ⁽⁸⁾ | 0.0 | cabinet probe calibration |
| /1b | -10 | 10.0 | °C/°F ⁽⁸⁾ | 0.0 | evaporator probe calibration (it is important if /Ab = 1) |

| LABEL | MIN. | MAX. | U.M. | DEF. | REGULATOR |
|-------|------|------|----------------------|------|---|
| r0 | 0.1 | 15.0 | °C/°F ⁽⁸⁾ | 2.0 | hysteresis (differential, it is relative to the working setpoint) |

| LABEL | MIN. | MAX. | U.M. | DEF. | ENERGY SAVING (the working setpoint becomes r8) |
|-------|------|------|------------------------|------|---|
| Hr1 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | 0.0 | Energy Saving cycle activation time |
| Hr2 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | 0.0 | Energy Saving cycle length |

| LABEL | MIN. | MAX. | U.M. | DEF. | REAL TIME DEFROST |
|-------|------|------|------------------------|------|--|
| Hd1 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | first defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |
| Hd2 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | second defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |
| Hd3 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | third defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |
| Hd4 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | fourth defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |
| Hd5 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | fifth defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |
| Hd6 | 0.0 | 23.5 | h.damin ⁽⁹⁾ | --- | sixth defrost activation time (it is important if dE = 3; --- = it will never be activated) ⁽¹⁰⁾ |

10.3 Second level parameters

| LABEL | MIN. | MAX. | U.M. | DEF. | MEASURE INPUTS |
|-------|------|------|----------------------|------|---|
| /0 | 1 | 3 | — | 1 | kind of probe (1 = PTC, 3 = NTC) |
| /1A | -10 | 10.0 | °C/°F ⁽⁸⁾ | 0.0 | cabinet probe calibration |
| /1b | -10 | 10.0 | °C/°F ⁽⁸⁾ | 0.0 | evaporator probe calibration (it is important if /Ab = 1) |
| /5 | 0 | 1 | — | 1 | temperature resolution (it is important if /8 = 1; 0 = 1 degree, 1 = 0.1 degrees) |
| /8 | 0 | 1 | — | 1 | temperature unit of measure (0 = Fahrenheit degree, 1 = Celsius degree) |
| /Ab | 0 | 1 | — | 1 | evaporator probe presence (and its functions; 1 = YES) ^{(11) (12)} |

| LABEL | MIN. | MAX. | U.M. | DEF. | REGULATOR |
|-------|------|------|----------------------|------|---|
| r0 | 0.1 | 15.0 | °C/°F ⁽⁸⁾ | 2.0 | hysteresis (differential, it is relative to the working setpoint) |