



### **Codes Faults**

| 000               | No fault  |
|-------------------|---|
| 001               | Failure air flow  |
| 004               | Dirty filters   |
| 005               | Missing filters   |
| 011               | Faulty electrical heater batteries                              |
| 012               | Supply air overtemperature                                      |
| 013               | Temperature room too low  |
| 014               | Faulty gas burner no. 1   |
| 015               | Faulty gas burner no. 2   |
| 022               | Supply temperature to below                                     |
| 023               | Room overtemperature  |
| 031               | Faulty humidifier   |
| 032               | Room humidity too low   |
| 033               | Room overhumidity   |
| 041               | Faulty pump   |
| 081               | Faulty return air or room temperature sensor                    |
| 082               | Faulty return air or room relative humidity sensor              |
| 083               | Faulty outside temperature sensor                               |
| 084               | Faulty outside relative humidity sensor                         |
| 085               | Faulty supply air temperature sensor                            |
| 086               | Faulty cold water loop temperature sensor                       |
| 087               | Faulty water condenser outlet temperature sensor                |
| 088               | Faulty mixing air temperature sensor                            |
| 091               | Faulty blower fan   |
| 092               | Faulty condenser : system 1                                     |
| 093               | Faulty condenser : system 2                                     |
| 094               | Faulty condenser : system 3                                     |
| 095               | Faulty condenser : system 4                                     |
| <u>096</u><br>097 | Condensor water temperature too low                             |
| 097               | Condensor water overtemperature<br>Faulty condenser water flow  |
| 098               | Error : smoke   |
| 111               | Faulty condenser temperature sensor, compressor no.1            |
| 112               | Faulty pressure transmitter, compressor no.1                    |
| 115               | Faulty high pressure or faulty electrical power compressor no.1 |
| 117               | Faulty low pressure compressor no.1                             |
| 121               | Faulty condenser temperature sensor, compressor no.2            |
| 122               | Faulty pressure transmitter, compressor no.2                    |
| 125               | Faulty high pressure or faulty electrical power compressor no.2 |
| 127               | Faulty low pressure compressor no.2                             |
| 131               | Faulty condenser temperature sensor, compressor no.3            |
| 132               | Faulty pressure transmitter, compressor no.3                    |
| 135               | Faulty high pressure or faulty electrical power compressor no.3 |
| 137               | Faulty low pressure compressor no.3                             |
| 141               | Faulty condenser temperature sensor, compressor no.4            |
| 142               | Faulty pressure transmitter, compressor no.4                    |
| 145               | Faulty high pressure or faulty electrical power compressor no.4 |
| 147               | Faulty low pressure compressor no.4                             |



### **Console KP02**

#### 1° Niveau, Consignes

|         |   | Mini.    | Usine  | Maxi.     |
|---------|---|----------|--------|-----------|
| 'C' 000 | [KP02] Password - Level Technician                                      | 0        | #      | 255       |
| 'C' 001 | [KP17] [Mode] Temperature wished in Room (in °c). This value            | 'C' 051  | 21.0 c | 'C' 050   |
|         | corresponds to the medium of the dead zone - (Active for the mode       |          |        |           |
|         | Day)  |          |        |           |
| 'C' 002 | [KP17] Force the mode Day - This action discharges automatically        | Off      | Off    | On        |
|         | with the first passage at midnight - yellow Led lit                     |          |        |           |
| 'C' 003 | [KP17] Cancels the forcing of modes Day or Night - yellow Led           | Off      | Off    | On        |
|         | twinkling   |          |        |           |
| 'C' 004 | [KP17] Force the mode Night - This action discharges automatically      | Off      | Off    | On        |
|         | with the second passage at midnight - yellow Led extinct                |          |        |           |
|         | [ Reset ] Discharges the safety measures of the unit                    | Off      | Off    | On        |
|         | [ On / Off ] Unite  | Off      | Off    | On        |
| C' 007  | [ KP02 ] Selection of the number of memory of the defects to be         | 1        | #      | 5         |
|         | visualized  |          |        |           |
| C' 008  | [ KP02 ] [ Mode ] Selection of the number of mode for the               | 0        | #      | 7         |
|         | visualization and the adjustment of the instructions - $(0 = Day, 1 =$  |          |        |           |
|         | Week-End, 2 = Night, 3 = not used, 4 = Morning, 5 = Midday, 6 =         |          |        |           |
|         | Evening, $7 = BMS$ )  |          |        |           |
| C' 009  | [ Mode ] Day of the week of beginning of mode - (Active for the         | 1        | #      | 7         |
|         | Week-End mode)  |          |        |           |
| C' 010  | [ Mode ] Hour of beginning of mode - (Active for the modes Week-        | 0 h      | # h    | 22 h      |
|         | End, Night, Morning, Midday, Evening)                                   |          |        |           |
| C' 011  | [Mode ] Minute of beginning of mode - (Active for the modes Week-       | 0 m      | # m    | 59 m      |
|         | End, Night, Morning, Midday, Evening)                                   |          |        |           |
| C' 012  | [ Mode ] Day of the week of end of mode - (Active for the Week-End      | 1        | #      | 7         |
|         | mode)   |          |        |           |
| C' 013  | [ Mode ] Hour of end of mode - (Active for the modes Week-End,          | 0 h      | # h    | 23 h      |
|         | Morning, Midday, Evening)   |          |        |           |
| C' 014  | [ Mode ] Minute of end of mode - (Active for the modes Week-End,        | 0 m      | # m    | 59 m      |
|         | Morning, Midday, Evening)   |          |        |           |
| C' 015  | [ Mode ] desired Maximum Temperature in Room (in °c) - Cold set         | 8.0 c    | # c    | 35.0 c    |
|         | point   |          |        |           |
| C' 016  | [ Mode ] desired Minimum Temperature in Room (in °c) – Heat set         | 8.0 c    | # c    | 35.0 c    |
|         | point   |          |        |           |
| C' 017  | [ Mode ] Selection of mode of Regulation in humidity - [Off ] The       | Off      | Off    | On        |
|         | instruction of humidity relative be catch in account (in %) - [On ] the |          |        |           |
|         | instruction of humidity absolute be catch in account (in g/kg)          |          |        |           |
| C' 018  | [ Mode ] desired Maximum relative humidity in Room (in %). –            | 0 %      | # %    | 100 %     |
|         | Dehumidification set point  |          |        |           |
| C' 019  | [Mode] desired Maximum absolute humidity in Room (in g/kg) –            | 0.0 g/kg | # g/kg | 30.0 g/kg |
|         | Dehumidification set point  |          |        |           |
| C' 020  | [ Mode ] desired Minimum relative humidity in Room (in %). –            | 0 %      | # %    | 100 %     |
|         | Humidification set point  |          |        |           |
| C' 021  | [ Mode ] desired Minimum absolute humidity in Room (in g/kg) –          | 0.0 g/kg | # g/kg | 30.0 g/kg |
|         | Humidification set point  |          |        |           |
| C' 022  | 1   | 0 %      | # %    | 100 %     |
|         | [Mode] Management of the Functioning / Stopping of the fan supply       | Off      | #      | On        |
|         | - [ Off ] the fan is stopped - [ On ] the fan is moving                 |          |        |           |
| C' 024  | [ Mode ] Management of the Functioning / Stopping of the fan supply     | Off      | #      | On        |
|         | in Dead zone of Regulation - [ Off ] the ventilator is stopped - [ On ] |          |        |           |
|         | the ventilator is moving  |          |        |           |
| C' 025  | [ Mode ] Management low speed of the fan supply in zone Regulation      | Off      | #      | On        |
|         | in Cooling - [ Off ] the ventilator is in high speed - [On ] the        |          |        |           |



|         |   |   | -         |           |
|---------|---|---|-----------|-----------|
|         | ventilator is in low speed  |   |           |           |
| 'C' 026 | Regulation - [ Off ] the ventilator is in high speed - [On ] the  | Off                                     | #         | On        |
|         | ventilator is in low speed  | ~ |           |           |
| C' 027  | [ Mode ] Management low speed of the fan supply in zone Regulation<br>in heating - [ Off ] the ventilator is in high speed - [On ] the ventilator   | Off                                     | #         | On        |
|         | is in low speed   |   |           |           |
| C' 028  | [ Mode ] Force the reduction mode of noise - [ One ] 50% of the compressors are lightened   | Off                                     | #         | On        |
| C' 029  | [ Mode ] Force the operation  | Off                                     | #         | On        |
| C' 030  | [ Command ] Force low speed of the fan Supply   | Off                                     | Off       | On        |
| C' 031  | [ Command ] Force the register of fresh air in position closed - (0% of new air)  | Off                                     | Off       | On        |
| C' 032  | [Ordre] Force the register of fresh air has the position defined by the threshold minimum   | Off                                     | Off       | On        |
| C' 033  | [ Command ] Force the register of fresh air in position open - (100% of new air)  | Off                                     | Off       | On        |
| C' 034  | [ Command ] Force an unballasting of compressors  | Off                                     | Off       | On        |
|         | [ Command ] Force an unballasting of Electrical heater  | Off                                     | Off       | On        |
| C' 036  |   | Off                                     | Off       | On        |
| 0 000   | of Electrical heater (LINEA) - 100% of Electrical heater (FLEXY)  | -                                       | -         | -         |
| C' 037  | [ Command ] Force an unballasting of all the bodies of refrigeration  | Off                                     | Off       | On        |
|         | [ Command ] Force an unballasting of all the bodies of heating  | Off                                     | Off       | On        |
|         | [ Limit safety ] Low Limit of temperature of Room (in °c). Threshold<br>of activation of the security   | 5.0 c                                   | 10.0 c    | 20.0 c    |
| C' 040  | [ Limit safety ] High Limit of temperature of Room (in °c). Threshold<br>of activation of the security  | 20.0 c                                  | 40.0 c    | 40.0 c    |
| C' 041  | [ Limit safety ] low Limit of relative humidity of Room (in %) -<br>Threshold of activation of the security   | 0 %                                     | 0 %       | 50 %      |
| C' 042  | [ Limit safety ] low Limit of absolute humidity of Room (in g/kg) -<br>Threshold of activation of the security  | 0.0 g/kg                                | 0.0 g/kg  | 30.0 g/kg |
| C' 043  | [ Limit safety ] high Limit of relative humidity of Room (in %) -<br>Threshold of activation of the security  | 50 %                                    | 100 %     | 100 %     |
| C' 044  | [ Limit safety ] high Limit of absolute humidity of Room (in g/kg) -<br>Threshold of activation of the security   | 0.0 g/kg                                | 30.0 g/kg | 30.0 g/kg |
| C' 045  | [Function Anticipation] Foot of slope (in °c) Threshold of activation of the function - This function allows the anticipated restarting of the Morning mode according to the outside temperature. | 0.0 c                                   | 10.0 c    | 20.0 c    |
| C' 046  | [Function Anticipation] Slope A number of minutes of<br>anticipation per degrees - This function allows the anticipated<br>restarting of the Morning mode according to the outside temperature.   | 0                                       | 0         | 100       |
| C' 047  | [ CO <sup>2</sup> ] Threshold of beginning of opening of the register of fresh air  | 0 ppm                                   | 1000 ppm  | 2000 ppm  |
|         | (in ppm)  |   |           |           |
| C' 048  | [ CO <sup>2</sup> ] maximum Threshold of opening of the register of fresh air (in ppm)  | 0 ppm                                   | 1500 ppm  | 2000 ppm  |
| C' 049  | [Extraction] Threshold of activation of the extractor fan according to the register of fresh air (in %)   | 0 %                                     | 10 %      | 100 %     |

### 2° Niveau, Consignes

| 'C' 050 | [KP17] [Mode] Maximum temperature, required setpoint for room,     | 21.0 c | 27.0 c | 35.0 c |
|---------|--|--------|--------|--------|
|         | day mode (in °c) - (Active for the mode Day)                       |        |        |        |
| 'C' 051 | [KP17] [Mode] Minimum temperature, required setpoint for room,     | 8.0 c  | 17.0 c | 21.0 c |
|         | day mode (in °c) - (Active for the mode Day)                       |        |        |        |
| 'C' 052 | [Room Regulation ] minimum Time of operations of a stage (in       | 25 s   | 180 s  | 1800 s |
|         | seconds)   |        |        |        |
| 'C' 053 | [Room Regulation] variation in temperature enters the starting and | 0.0 c  | 1.0 c  | 10.0 c |
|         | the stop of a stage of Regulation in Cooling (in °c)               |        |        |        |
| 'C' 054 | [Room Regulation] variation in temperature between two stages of   | 0.1 c  | 1.0 c  | 10.0 c |



|         |  |                  | •               |        |
|---------|--|------------------|-----------------|--------|
|         | Regulation in Cooling (in °c)  |                  |                 |        |
| 'C' 055 | [Room Regulation] variation in temperature enters the starting and     | 0.0 c            | 1.0 c           | 10.0 c |
|         | the stop of a stage of Regulation in Heating (in °c)                   |                  |                 |        |
| 'C' 056 | [Room Regulation] variation in temperature between two stages of       | 0.1 c            | 1.0 c           | 10.0 c |
|         | Regulation in Heating (in °c)  |                  |                 |        |
| 'C' 057 | [Room Regulation] Choice of the priority of Regulation in Heating.     | Off              | Off             | On     |
|         | - [ Off ] Hot water coil or Electrical heater or Gas then Compressors. |                  |                 |        |
|         | - [ One ] Compressors then Hot water coil or Electrical heater or Gas  |                  |                 |        |
| 'C' 058 | [Supply Regulation] Activation of the Regulation. – The Regulation     | Off              | Off             | On     |
|         | with blowing applies when the temperature of Room is in dead zone.     |                  |                 |        |
|         | - This function makes it possible to maintain a comfort of blowing     |                  |                 |        |
| 'C' 059 |  | 1 s              | 10 s            | 120 s  |
| C' 060  |  | Off              | Off             | On     |
| 0 000   | - [ Off ] Hot water coil or Electrical heater or Gas then Compressors. | -                | _               | -      |
|         | - [ One ] Compressors then Hot water coil or Electrical heater or Gas  |                  |                 |        |
| C' 061  | [Regulation in Humidity] interval of Humidity enters the starting and  | 1 %              | 3 %             | 50 %   |
| 0 001   | the stop of a stage of Regulation in Dehumidification (in %)           | . ,0             | 0,10            |        |
| C' 062  |  | 1 %              | 3 %             | 50 %   |
| C 002   |  | 1 /0             | 5 70            | 50 /0  |
| C' 063  | of Regulation in Dehumidification (in %)                               | 1 s              | 10 s            | 120 s  |
| C 003   | [ Regulation in Humidity ] Lasted of sampling of the Regulation in     | 15               | 10.5            | 120 5  |
| 01.004  | humidification (in seconds)  | 1 %              | 5 %             | 50 %   |
| C' 064  | [Regulation in Humidity] Tape proportional of the Regulation in        | 1 %              | 5 %             | 50 %   |
| 01 005  | humidification (in %)  | 'C' 066 + 2.0 c  | 10.0 c / 8.0 c  | 10.0 - |
| C' 065  | [Limit safety ] low Limit of temperature to blowing (in °c) -          | C 066 + 2.0 C    | 10.0 C / 8.0 C  | 19.0 c |
|         | Threshold of activation of the 1° level of security.                   | (0) 007 0.0      |                 |        |
| C' 066  | [Limit safety] low Limit of temperature to blowing (in °c) -           | 'C' 067 + 2.0 c  | 8.0 c / 6.0 c   | 17.0 c |
|         | Threshold of activation of the 2° level of security.                   |                  |                 |        |
| C' 067  | [Limit safety] low Limit of temperature to blowing (in °c) -           | 5.0 c / 1.0 c    | 6.0 c / 2.0 c   | 15.0 c |
|         | Threshold of activation of the 3° level of security Alarm threshold    |                  |                 |        |
| C' 068  | [Limit safety] high Limit of temperature to blowing (in °c) -          | 20.0 c           | 40.0 c          | 70.0 c |
|         | Threshold of activation of the 1° level of security.                   |                  |                 |        |
| C' 069  | [ Limit safety ] high Limit of temperature to blowing (in °c) -        | 'C' 068          | 60.0 c          | 70.0 c |
|         | Threshold of activation of the 2° level of security Alarm threshold    |                  |                 |        |
| C' 070  | [Limit of Regulation] Register of new air - maximum Threshold of       | 0.0 c            | 26.0 c          | 60.0 c |
|         | outside temperature (in °c) If the outside temperature is higher than  |                  |                 |        |
|         | this threshold the Regulation in free-cooling is not authorized The    |                  |                 |        |
|         | register of new air is positioned on the minimum                       |                  |                 |        |
| C' 071  | [Limit of Regulation] Register of new air - minimum Threshold of       | 0.0 c            | 5.0 c           | 30.0 c |
|         | outside temperature (in °c) If the outside temperature is lower than   |                  |                 |        |
|         | this threshold the Regulation in free-cooling is not authorized. – The |                  |                 |        |
|         | register of new air is positioned on the minimum                       |                  |                 |        |
| C' 072  | [Register to Fresh Air] maximum Value of opening of the register       | 0 %              | 100 %           | 100 %  |
|         | (in %)   |                  |                 |        |
| 'C' 073 | [Limite of Regulation] * 1° If Option Regulation all seasons for a     | -10.0 c / 10.0 c | 12.0 c / 20.0 c | 30.0 c |
|         | FLEXY - Reduction speed of the fans condenser - Threshold of           |                  |                 |        |
|         | outside temperature (in °c) If the outside temperature is lower than   |                  |                 |        |
|         | this threshold the fans condenser function in low speed * 2° If not -  |                  |                 |        |
|         | Unballasting 50% of the Compressors in Cold - Threshold of outside     |                  |                 |        |
|         | temperature (in °c) If the outside temperature is lower than this      |                  |                 |        |
|         | threshold 50% of the compressors are used by the Regulation            |                  |                 |        |
| C' 074  | [Limite of Regulation] * 1° If Option Regulation all seasons -         | -10.0 c / 10.0 c | 5.0 c / 12.0 c  | 30.0 c |
|         | Stopping of the fans condenser - Threshold of outside temperature (in  |                  |                 |        |
|         | °c) If the outside temperature is lower than this threshold the fans   |                  |                 |        |
|         | condenser are stopped * 2° If not - Unballasting 100% of the           |                  |                 |        |
|         | Compressors in Cold - Threshold of outside temperature (in °c) If      |                  |                 |        |
|         | the outside temperature is lower than this threshold the compressors   |                  |                 |        |
|         | are not used by the Regulation   |                  |                 |        |
|         |  |                  |                 |        |
| C' 075  | [Limit of Regulation] Unballasting 100% of the Compressors in          | -50.0 c          | -20.0 c         | 20.0 c |



|         |   |         | -               |         |
|---------|---|---------|-----------------|---------|
|         | temperature is lower than this threshold the compressors are not used<br>by the Regulation  |         |                 |         |
| 'C' 076 | [Function Defrost ] Authorization of defrost - Threshold of outside temperature (in °c)   | 8.0 c   | 10.0 c / 20.0 c | 20.0 c  |
| 'C' 077 | [Function Defrost ] Authorization of defrost - Threshold of<br>temperature of cooling agent (in °c)   | -10.0 c | 2.0 c / -2.0 c  | 6.0 c   |
| 'C' 078 | [Function Defrost] Temps of catch in ice (in minute) - the cycle of defrost is activated if the operating time of a compressor out of heat pump reached this value  | 30 m    | 30 m / 45 m     | 90 m    |
| 'C' 079 | [Function Defrost] of the Cycle of defrost - Value indicating the<br>number of revivals of the fan condenser by the pressure controller to<br>mean the end of defrost   | 1       | 1/3             | 5       |
| 'C' 080 | [Limit safety ] Low Limit of temperature of output of exchanger with water (in $^{\circ}$ c) - Threshold of activation of the security  | 4.0 c   | 5.0 c           | 20.0 c  |
| 'C' 081 | [Limit safety] High Limit of temperature of output of exchanger<br>with water (in °c) Threshold of activation of the security   | 20.0 c  | 45.0 c          | 46.0 c  |
| 'C' 082 | [Limit of Regulation ] Unballasting 100% of Electrical heater -<br>Threshold of outside temperature (in °c). If the outside temperature<br>is higher than this threshold Electrical heater are not used by the<br>Regulation  | -20.0 c | 10.0 c          | 30.0 c  |
| 'C' 083 | [Electrical heater ] Maximum power of use of Electrical heater (in %)   | 0 %     | 100 %           | 100 %   |
| 'C' 084 | [Electrical heater ] Regulation all seasons of FLEXY FX - Threshold<br>of temperature of mixture (in °c) - If the temperature of mixture is<br>lower than this threshold Electrical heater are activated  | 0.0 c   | 5.0 c           | 10.0 c  |
| 'C' 085 | [Limite Security] Détection of the air flow - Threshold of variation<br>of pressure for the detection of the loss of pressure (in Pa) - If the<br>variation of pressure of distribution is lower than this threshold the<br>security is active  | 0 pa    | 20 pa           | 1000 pa |
| 'C' 086 | [Limite Security] Détection of clogging of the filters – Threshold of variation of pressure for the detection of clogging (in Pa) - If the variation of pressure of distribution is higher than this threshold the security is active   | 0 pa    | 250 pa          | 1000 pa |
| C' 087  | [Limite Security] Détection of the filters missing - Threshold of<br>variation of pressure for the detection of the missing of the filters (in<br>Pa) - If the variation of pressure of distribution is lower than this<br>threshold the security is active   | 0 pa    | 50 pa           | 1000 pa |
| 'C' 088 | [KP12-2] Time of taking into account of the closing of the contact<br>n°3 (in seconds)  | 4 s     | 60 s            | 65535 s |
| 'C' 088 | [KP12-2] Time of taking into account of the opening of the contact n°2 (in seconds)   | 2 s     | 300 s           | 65535 s |
| 'C' 090 | [KP17] Choice of the operating mode - [Off] Button of left =<br>Forcing mode Day / Button of the medium = Cancellation of forcing /<br>Button of right = Forcing mode of Night - [On] Button of left =<br>Functioning of the unit / Button of right = Stop of the unit  | Off     | #               | On      |
| 'C' 091 | [ Configuration ] Identification number for the connections J-Bus   | 1       | #               | 255     |
| 'C' 092 | [BMS] Activation of the control by a computer or an automat -<br>mode BMS is activated if this value is different from zero, This value<br>is decreased every second  | 0       | 0               | 65535   |
| 'C' 093 | [ Configuration ] [Link ] Identification number for the connections<br>Link   | 0       | #               | 7       |
| 'C' 094 | [ Configuration ] [Link ] A number of cards chained on the bus  | 0       | #               | 8       |
| 'C' 095 | [Configuration] [Link] Choice of the operating mode - [0]<br>Inactive - [1] a KP17 for several units - All information of the KP17<br>connected on the unit Master is communicated to the different units -<br>[2] Unit in Standby mode - the unit of stronger address connected to<br>the bus is stopped. If on another unit a defect is activated, the unit at<br>fault is stopped and the unit on standby starts again automatically - [<br>3] Idem of choice 2 of more the unit in changing is permuted every | 0       | #               | 3       |



|         | Tuesday with 8 heurs  |     |     |         |
|---------|---|-----|-----|---------|
|         | [ Configuration ] [ Link ] Choice of the mode of exchange of the      | 0   | #   | 2       |
|         | temperature and humidity Room - [0] Inactive - [1] the temperature    |     |     |         |
|         | and humidity Room of the unit Master is communicated to the           |     |     |         |
|         | different units - [2] the temperature and humidity Room is the result |     |     |         |
|         | of the average of the probes Present                                  |     |     |         |
| 'C' 097 | [ Configuration ] [ Link ] Choice of the mode of exchange of the      | 0   | #   | 2       |
|         | temperature and humidity Outside - [0] Inactive - [1] the             |     |     |         |
|         | temperature and humidity Outside of the unit Master is                |     |     |         |
|         | communicated to the different units - [2] the temperature and         |     |     |         |
|         | humidity Outside is the result of the average of the probes Present   |     |     |         |
| 'C' 098 | [ Configuration ] Type of unite                                       | 0   | #   | 65535   |
| 'C' 099 | [ Configuration ] Type of unite [Off] FLEXY [On] LINEA                | Off | #   | On      |
| 'C' 100 | [ Configuration ] Activation of the option Bi-Speed of fan supply     | Off | #   | On      |
| 'C' 101 | [ Configuration ] Activation of the option Regulation all Seasons     | Off | #   | On      |
| 'C' 102 | [ Configuration ] Activation of the option Defrost optimized          | Off | #   | On      |
| 'C' 103 | [Configuration] Activation of the option Management of humidity       | Off | #   | On      |
|         | and the enthalpy  |     |     |         |
| 'C' 104 | [ Various ] All setpoint values overide to factory                    | Off | Off | On      |
| 'C' 105 | [ Various ] Reserved Lennox   | 0   | 0   | 6553500 |

### 1° Niveau, Variables

| 'V' 000 | [ Defects ] Code error   |
|---------|--|
| 'V' 001 | [ Value ] Temperature (in °c), Room, Value of reference          |
| 'V' 002 | [Value] relative Humidity (in %), Room, Value of reference       |
| 'V' 003 | [ Value ] absolute Humidity (in g/kg), Room, Value of reference  |
| 'V' 004 | [ Value ] Temperature (in °c), Outside, Value of reference       |
| 'V' 005 | [ Value ] relative Humidity (in %), Outside, Value of reference  |
| 'V' 006 | [Value] absolute Humidity (in g/kg), Outside, Value of reference |
| 'V' 007 | [ Input ] Temperature (in °c), Supply                            |
| 'V' 008 | [ Input ] Temperature (in °c), Mixing                            |
| 'V' 009 | [ Input ] Temperature (in °c), Free                              |
| 'V' 010 | [ Input ] Temperature (in °c), Chilled water                     |
| 'V' 011 | [ Input ] Temperature (in °c), Compressor, n°1                   |
| 'V' 012 | [ Input ] Temperature (in °c), Compressor, n°2                   |
| 'V' 013 | [ Input ] Temperature (in °c), Compressor, n°3                   |
| 'V' 014 | [ Input ] Temperature (in °c), Compressor, n°4                   |
| 'V' 015 | [ Input ] Temperature (in °c), Condenser, n°1                    |
| 'V' 016 | [ Input ] Temperature (in °c), Condenser, n°2                    |
| 'V' 017 | [ Input ] Temperature (in °c), Condenser, n°3                    |
| 'V' 018 | [ Input ] Temperature (in °c), Condenser, n°4                    |
| 'V' 019 | [ Input ] Temperature (in °c), Water condenser, Output exchanger |
| 'V' 020 |  |
| 'V' 021 | [ Input ] Pressure (in pa), Air flow, Supply fan                 |
| 'V' 022 | [ Input ] Signal (in ppm), Air quality sensor, CO <sup>2</sup>   |
| 'V' 023 | [ Input ] Pressure (in b), Compressor, n°1                       |
| 'V' 024 | [ Input ] Pressure (in b), Compressor, n°2                       |
| 'V' 025 | [ Input ] Pressure (in b), Compressor, n°3                       |
| 'V' 026 | [ Input ] Pressure (in b), Compressor, n°4                       |
| 'V' 027 | [ Output ] Supply fan  |
| 'V' 028 | [ Output ] Supply fan, Command low speed                         |
| 'V' 029 | [ Output ] Extractor fan   |
| 'V' 030 | [ Output ] Compressor, n°1                                       |
| 'V' 031 | [ Output ] Compressor, n°2                                       |
| 'V' 032 | [ Output ] Compressor, n°3                                       |
| 'V' 033 | [ Output ] Compressor, n°4                                       |
| 'V' 034 | [ Output ] Compressor, cycle reversing valve, Heat Pump, n°1     |
| 'V' 035 | [ Output ] Compressor, cycle reversing valve, Heat Pump, n°2     |





| 'V' 036            | [ Output ] Compressor, cycle reversing valve, Heat Pump, n°3  |
|--------------------|---|
| V 030              | [ Output ] Compressor, cycle reversing valve, Heat Pump, n°4  |
| V' 037             | [ Output ] Compressor, eyer reversing varve, near runp, in 4  |
| 'V' 039            | [ Output ] Condenser fan, Command low speed se  |
| 'V' 040            | [ Output ] Condenser fan, n°1   |
| 'V' 041            | [ Output ] Condenser fan, n°2   |
| 'V' 042            | [ Output ] Condenser fan, n°3   |
| 'V' 043            | [ Output ] Condenser fan, n°4   |
| 'V' 044            | [ Output ] Pump   |
| 'V' 045            | [ Output ] Electrical heater, n°1, 1st level  |
| 'V' 046            | [ Output ] Electrical heater, n°1, 2nd level  |
| 'V' 047            | [ Output ] Electrical heater, n°2   |
| 'V' 048            | [ Output ] Gas grade, n°1, 1st level  |
| 'V' 049            | [ Output ] Gas grade, n°1, 2nd level  |
| 'V' 050            | [ Output ] Gas grade, n°2   |
| 'V' 051            | [ Output ] Gas grade, Reset   |
| 'V' 052            | [ Output ] Economiser, Proportional action (0-255)  |
| 'V' 053            | [ Output ] Chilled water coil, Proportional action (0-255)  |
| 'V' 054            | [ Output ] Hot water coil, Proportional action (0-255)  |
| 'V' 055            | [ Output ] Electrical heater, Static relays, Proportional action (0-255)  |
| 'V' 056            | [ Output ] Humidifier, Proportional action (0-255)  |
| 'V' 057            | [Statute] Supply fan (1 = Ok / 2 = Option Air flow / 3 = Option Low Speed / 4 = Option Air flow + Low Speed / 6   |
| 11/1 050           | = Activation of a defect $/7$ = Activation of a defect filters $/8$ =Ventilation nonready   |
| 'V' 058            | [Statute] Economiser (0= Option Any Air Recycled / 1 = All Fresh Air / 2 = Option Economiser / 3 = Option<br>Enthalpy / 4 = Option $CO^2$ / 5 = Option Enthalpy + $CO^2$ / 6 = Function Enthalpy activates / 7 = Remote command |
|                    | Enthalpy $/ 4 = 0$ puol $CO^2 / 5 = 0$ puol Enthalpy $+ CO^2 / 6 =$ Function Enthalpy activates $/ 7 =$ Remote command<br>active $/ 8 =$ Ventilation nonready   |
| 'V' 059            | [Statute] Chilled water coil (0= Not configured / $1 = Ok / 8 = Ventilation nonready$   |
| V 055              | [Statute] Hot water coil (0= Not configured / $1 = Ok / 8 = Ventilation nonready$   |
| 'V' 061            | [Statute] For water con (6 – Not configured / 1 = $Ok$ / 6 – Ventilation noniceady<br>[Statute] Compressor, n°1 (0= Not configured / 1 = Option Cooling only / 2 = Option Heat pump / 3 = Defrost in                            |
|                    | progress / $5 =$ Limit outside temperature or Remote command active / $6 =$ Activation of a defect / $7 =$ Activation of  |
|                    | a defect condenser / 8 = Ventilation nonready   |
| 'V' 062            | [Statute] Compressor, $n^{\circ}2$ (0= Not configured / 1 = Option Cooling only / 2 = Option Heat pump / 3 Defrost in   |
|                    | progress $/5$ = Limit outside temperature or Remote command active $/6$ = Activation of a defect $/7$ = Activation of   |
|                    | a defect condenser / 8 = Ventilation nonready   |
| 'V' 063            | [Statute] Compressor, $n^{\circ}3$ (0= Not configured / 1 = Option Cooling only / 2 = Option Heat pump / 3 Defrost in   |
|                    | progress $/5$ = Limit outside temperature or Remote command active $/6$ = Activation of a defect $/7$ = Activation of   |
|                    | a defect condenser / 8 = Ventilation nonready   |
| 'V' 064            | [Statute] Compressor, n°4 (0= Not configured / 1 = Option Cooling only / 2 = Option Heat pump / 3 = Defrost in  |
|                    | progress / $5 =$ Limit outside temperature or Remote command active / $6 =$ Activation of a defect / $7 =$ Activation of  |
| 'V' 065            | a defect condenser / 8 = Ventilation nonready<br>[Statute] Condenser (0= Not configured / 1 = Option Air Condenser / 2 = Option water Condenser / 6 = Activation  |
| v 003              | f a defect / 8 = Ventilation nonready   |
| 'V' 066            | [Statute] Pump (0= Not configured / $1 = Ok / 6 = Activation of a defect / 8 = Ventilation nonready$  |
| 'V' 067            | [Statute] Electrical heater (0= Not configured / 1, 2 or $3 =$ Number of Stages / 4 = Static relays / 5 = Limit outside   |
|                    | temperature or Remote command active $/ 6 =$ Activation of a defect $/ 8 =$ Ventilation nonready  |
| 'V' 068            | [Statute] Gas grade (0= Not configured / 1, 2 or $3 =$ Number of Stages / $6 =$ Activation of a defect / $8 =$ Ventilation  |
| '                  | nonready  |
| 'V' 069            | [Statute] Humidifier (0= Not configured / $1 = Ok / 6 = Activation of a defect / 8 = Ventilation nonready$  |
| 'V' 070            | [Regulation] Real set point, Cooling, Room  |
| 'V' 071            | [ Regulation ] Real set point, Heating, Room  |
| 'V' 072            | [ Regulation ] Power-factor, Cooling, Room  |
| 'V' 073            | [ Regulation ] Power-factor, Heating, Room  |
| 'V' 074            | [ Regulation ] Real set point, Supply   |
| 'V' 075            | [ Regulation ] Power-factor, Cooling, Supply  |
| 'V' 076            | [ Regulation ] Power-factor, Heating, Supply  |
| 'V' 077            | [ Regulation ] Real set point, Déshumidification, Room  |
| 'V' 078<br>'V' 079 | [ Regulation ] Real set point, Humidification, Room   |
|                    | [Regulation] Power-factor, Dehumidification, Room   |





| 'V' 080 | [ Regulation ] Power-factor, Humidification, Room |
|---------|---|
| 'V' 081 | [ Mode ] Number of the active mode                |
| 'V' 082 | [Function] Number of the unit in Standby          |
| 'V' 083 | [ Defects ] Memory, Code                          |
| 'V' 084 | [ Defects ] Memory, Hour                          |
| 'V' 085 | [ Defects ] Memory, Minute                        |
| 'V' 086 | [ Defects ] Memory, Day                           |
| 'V' 087 | [ Defects ] Memory, Month                         |
| 'V' 088 | [Information] nonstandard Program                 |
| 'V' 089 | [ Information ] Number of version of the Program. |

### Configuration

#### This information is taken into account by the program after ahanding-over under tension.

#### Set point 'Eeprom'

| (KP02 C.083) | Maximum percentage of power of electrical heater          |
|--------------|---|
| (KP02 C.090) | On = KP17 in $ON/OFF$ mode                                |
| (KP02 C.091) | J.Bus; Number of slave (KP06, KP07, CLIMALINK, CLIMALOOK) |
| (KP02 C.093) | Link; Identification number                               |
| (KP02 C.094) | Link; Number of connected cards                           |
| (KP02 C.095) | Link; Functions   |
| (KP02 C.096) | Link; Room Temperature and Humidity                       |
| (KP02 C.097) | Link; Outside Temperature and Humidity                    |
| (KP02 C.098) | See tables below  |
| (KP02 C.100) | On = Option Bi-Speed of the blower                        |
| (KP02 C.101) | On = Option Regulation all seasons                        |
| (KP02 C.102) | On = Option optimized defrost                             |
| (KP02 C.103) | On = Option Enthalpy and management of the humidity       |

| L.A020 01 | <b>F.A050</b> 11 | FXA025 20 | L.K020 101 | <b>F.K050</b> 111 | FXK025 | 120 |
|-----------|------------------|-----------|------------|-------------------|--------|-----|
| L.A025 02 | F.A060 12        | FXA030 21 | L.K025 102 | F.K060 112        | FXK030 | 121 |
| L.A030 03 | F.A070 13        | FXA035 22 | L.K030 103 | F.K070 113        | FXK035 | 122 |
| L.A035 04 | F.A085 14        | FXA040 23 | L.K035 104 | F.K085 114        | FXK040 | 123 |
| L.A040 05 | F.A100 15        | FXA055 24 | L.K040 105 | F.K100 115        | FXK055 | 124 |
| L.A045 06 | F.A120 16        | FXA070 25 | L.K045 106 | F.K120 116        | FXK070 | 125 |
| L.A055 07 | F.A140 17        | FXA085 26 | L.K055 107 | F.K140 117        | FXK085 | 126 |
| L.A065 08 | F.A160 18        | FXA100 27 | L.K065 108 | F.K160 118        | FXK100 | 127 |
| L.A075 09 | F.A190 19        | FXA110 28 | L.K075 109 | F.K190 119        | FXK110 | 128 |
| L.A090 10 |                  | FXA140 29 | L.K090 110 | ·                 | FXK140 | 129 |
|           |                  | FXA170 30 |            |                   | FXK170 | 130 |

#### Switchs on KP01 board

| 1 = on | Option : Pressure pick-u | p on air 500 pa (on FLEXY | off = Sensor 1000 pa |
|--------|--------------------------|---------------------------|----------------------|
|        |                          |                           |                      |

- 2 =on | 3 =off Option : Hot water coil
- 2 = off | 3 = on Option : Electrical heater
- 2 =on | 3 =on Option : Gas burner
- 4 = on Option : Cycle reversing valve, Compressors (Heat Pump)
- 5 = on Option : Heating of great power / or / Pump (Except freezing of the hot water coil)
- 6 = on Option : Fresh air, Economiseur
- 7 = on Option : Fresh air, All fresh air
- 8 = on Option : KP02 / KP17