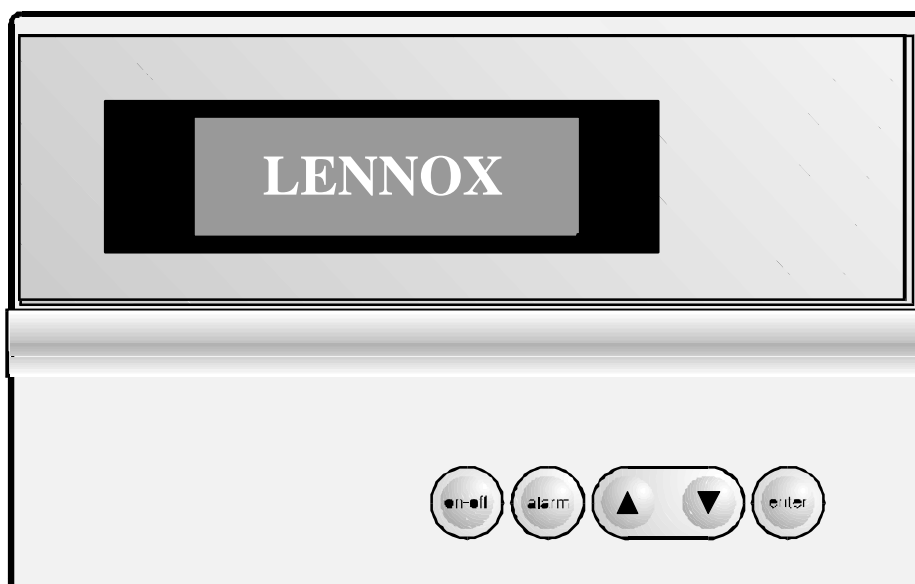


D^{DELTA 2} RANGE.
MICROPROCESSOR CONTROLLER
SYSTEM PROGRAMMING MANUAL



UNITS WITH 4 X 20 LCD DISPLAY

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4 x 20 LCD DISPLAY UNIT:

FRONT PANEL VIEW WITH FRONT DOOR CLOSED

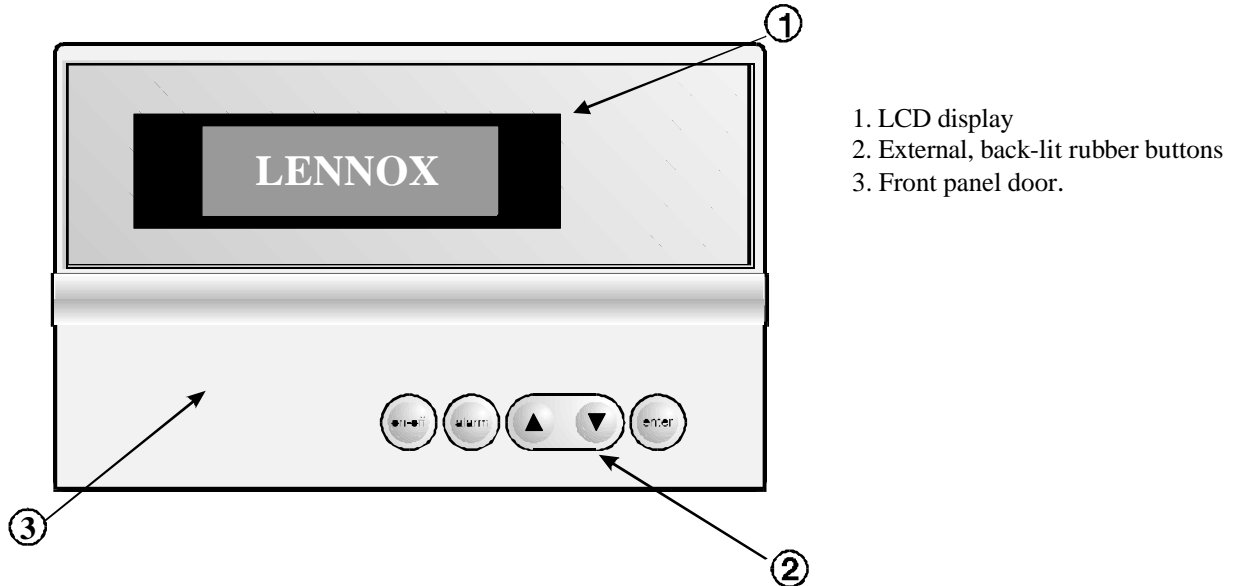


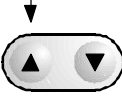
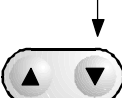



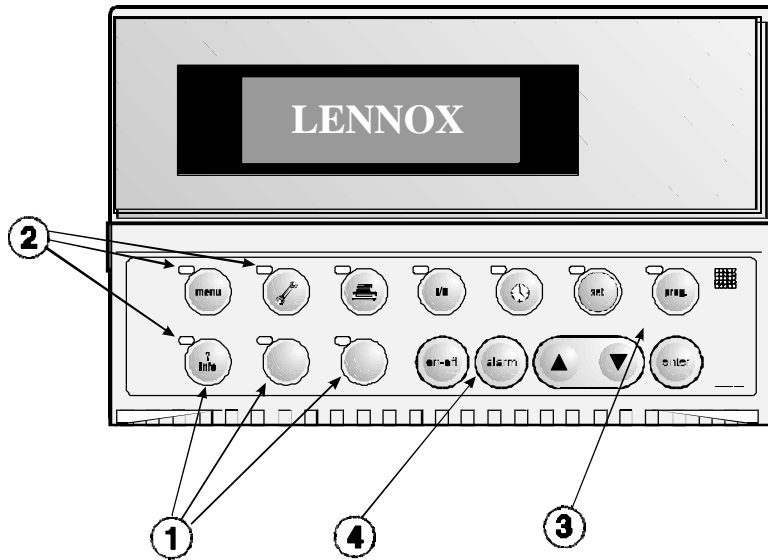
Figure 1

EXTERNAL BUTTONS IN SILICONE RUBBER

-  **On/Off button:** turns on and off the unit. The green led lit behind the button indicates that the unit is ON.
-  **Alarm button:** by pressing this button you can display the alarm that has occurred, reset it manually or silence the buzzer. When the red led indicator lights up, at least one alarm condition has occurred.
-  **Up arrow:** displays the program windows and allows the user to set the value of the control parameter (no back-light).
-  **Down arrow:** displays the program windows and allows the user to set the value of the control parameter (no back-light).
-  **Enter button:** confirms the set data. The button is always back-lit (yellow light). It indicates that the unit is being powered.

4 x 20 LCD DISPLAY UNIT:

FRONT PANEL VIEW WITH FRONT DOOR OPEN



References relative to Figure 1

1. Tactile push buttons.
2. Function LED indicators.
3. Adhesive polycarbonate label for primary functions.
4. Rubber buttons.

Figure 1

GENERAL FUNCTIONS:

There are 10 tactile buttons available to allow the user to view and/or change specific parameters. The keys are segregated for ease of use and allow the user access to a specific loop (grouping of screens)

A **green** LED next to each key indicates which specific key has been selected. This LED will remain on as long as that button is being utilised.

FUNCTIONS OF THE TACTILE PUSH BUTTONS



displays the values measured by the sensors & using arrow down buttons gives function status



displays the value concerning the maintenance of the fan(s) and compressor(s) (run hours or timer reset)



allows the user to access the windows concerning the printer (if present) This facility requires the optional printer display to be fitted.



displays the status of inputs and outputs (both digital and analogue)



Displays/sets the hour/date.



allows the user to configure the set-points within limits defined in the program.



This button is password protected. It is utilised for setting the main software working parameters.



displays the software version and other additional information

The green led indicators on the right-hand front panel will light up when the function they represent is being performed.

DEFAULT SCREENS.



With the unit on , the default screens are as below. Use the “▲ ▼” arrow key to move up and down the screens

Screen 1 : Indicates Unit On/Off condition, Return Air Temperature, Return Air Humidity, Unit number, Time, Date

Screen 2 : Indicates operating mode of Cool, Heat, Humidifying, Dehumidifying

Screen 3 : Indicates status of Dehumidification Low & High Temperature Limits.

MANUFACTURERS PASSWORD.



Manufacturing Setup Programming Sequence

This allows the user to check and/or modify the factory setups. This section is password protected and the relevant password is required for access.

To access this section of the controller press the “**menu**” and “**prog**” buttons together. The screen below will be displayed and the user can enter the password using the “up/down” arrow keys

To enter the password press the "**ENTER**" button and scroll up the numbers with the "**UP/DOWN**" arrow key.

The display will acknowledge if the password is correct or not as outlined.

The **MANUFACTURERS** part of the program is subdivided into 4 distinct sub sections as outlined below. Each section will be examined separately.

To move to a specific section use the “Up/Down” arrow keys and the “Enter” button to gain access.

Extreme caution must be exercised when modifying screen parameters as unit operation and performance can be affected. When in doubt consult factory or local representative.

To return to the Main Menu press the “Menu” button. The “▲ ▼” arrow key is used to move up and down the screen and the “Enter” button used to gain access to the subsection.

UNIT CONFIGURATION – SUBSECTION.

TABLE NO. 1

Screen Ref – 1			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Printer	N/A	N	Not Applicable & Option Not Available
Supervisor	Y/N	See Note	If a Supervisor is connected to the unit
Integrated Humidifier	Y/N	Y	For Units With Humidifier
Screen Ref – 2			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Enable Humidity Probe	Y/N	Y	For Units With Humidifier
Select Probe Type	0-1 V	0-1 V	For Units With Humidifier
Screen Ref – 3			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Select Room Temp Probe Type	See Note	NTC	Sensor is always NTC. PT 1000 in special cases
Screen Ref – 4			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Enable Supply Air Probe	See Note	N/A	Only for units with this option. NTC or PT 1000 if used
Screen Ref – 5			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Enable Freecooling Water Probe	Y/N	See Note	For units with Freecooling. Probe type is NTC
Screen Ref – 6			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Enable Freecooling	Y/N	See Note	For units with Freecooling.
Freecooling Type	W/A	See Note	Depends on Freecooling Type. W=Water & A=Air
Screen Ref – 7			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Freecooling by AO	Y/N	See Note	For units with Freecooling. Activates Analog Output
Screen Ref – 8			
TEXT	OPTION	FACTORY SET	DESCRIPTION
No. of Units in Local Network	000	See Note	For Local Network of up to 16 Units
Screen Ref – 9			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Heaters No.	0/1/2	See Note	If Unit has heaters & number of stages
Compressors No.	0/1/2	See Note	If Unit has compressors & number of compressors
Screen Ref – 10			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Cooling Valve	Y/N	See Note	Depends if Unit Has Cooling Valve
Heating Valve	Y/N	See Note	Depends if Unit Has Heating Valve

PARAMETERS – SUBSECTION.

TABLE NO. 2

Screen Ref – 1			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Compressors with Freecooling	Y/N	See Note	For units with Freecooling
Screen Ref – 2			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Rotation of Compressors	Y/N	Y	Compressor Operation is Rotated for Equal Wear
Compressors for Dehum.	0/1/2	1	Normally only 1 Compressor set for Dehum
Regulation Type	P / P+I	P	Can be set as P+I to add an Integration Time
Screen Ref – 3			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Compressor 1 without Freecooling			
Set	000.0%	025.0%	Defines Operation Point of Compressor 1
Hysteresis	000.0%	025.0%	Defines Operation Point of Compressor 1

TABLE NO. 2 CONTINUED

Screen Ref – 4			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Compressor 2 without Freecooling			
Set	000.0%	075.0%	Defines Operation Point of Compressor 2
Hysterisis	000.0%	025.0%	Defines Operation Point of Compressor 2
Screen Ref – 5			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Compressor 1 with Freecooling			
Set	000.0%	050.0%	Defines Operation Point of Compressor 1 in Freecooling
Hysterisis	000.0%	016.0%	Defines Operation Point of Compressor 1 in Freecooling
Screen Ref – 6			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Compressor 2 with Freecooling			
Set	000.0%	083.3%	Defines Operation Point of Compressor 2 in Freecooling
Hysterisis	000.0%	016.6%	Defines Operation Point of Compressor 2 in Freecooling
Screen Ref – 7			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Step Heaster 1 Set	000.0%	025.0%	Defines Operation Point of Heater 1
Step Heaster 1 Hysterisis	000.0%	025.0%	Defines Operation Point of Heater 1
Screen Ref – 8			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Step Heaster 2 Set	000.0%	050.0%	Defines Operation Point of Heater 2
Step Heaster 2 Hysterisis	000.0%	025.0%	Defines Operation Point of Heater 2
Screen Ref – 9			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Damper/Valve Freecooling Start	000.0%	000.0%	Defines Starting Valve Position
Damper/Valve Freecooling Stop	000.0%	100.0%	Defines Stopping Valve Position
Screen Ref – 10			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Step Dehumidification Set	000.0%	050.0%	Defines Operation Point of Dehumidification
Step Dehumidification Hysterisis	000.0%	050.0%	Defines Operation Point of Dehumidification
Screen Ref – 11			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Low Temp Limit Stop Dehum			
Set	000.0%	060.0%	Low Temp Point where Dehum is enabled / disabled
Hysterisis	000.0%	035.0%	Low Temp Point where Dehum is enabled / disabled
Screen Ref – 12			
TEXT	OPTION	FACTORY SET	DESCRIPTION
High Temp Limit Stop Dehum			
Set	000.0%	060.0%	High Temp Point where Dehum is enabled / disabled
Hysterisis	000.0%	035.0%	High Temp Point where Dehum is enabled / disabled
Screen Ref – 13			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Humidifier	See Note	See Note	Humidifier Size. 5 or13 kg/hr depending on Unit
Voltage	See Note	See Note	Dependins on Unit Voltage
Phases Number	3	3	Always 3 Phase Power
Tam Model	100	100	Always a Tam 100 Transformer
Screen Ref – 14			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Enable drain with voltage	Y/N	N	Humidifier cannot drain when live
Parameter C0	See Note	See Note	Set at factory, do not adjust
Parameter C1	See Note	See Note	Set at factory, do not adjust

TABLE NO. 2 CONTINUED

Screen Ref – 15			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Supervisor Comms Speed	See Note	See Note	From 1,200 – 19,200 bps
Screen Ref – 16			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Room Humidity Start	000.0%	010.0%	Settings for reading Humidity Sensor
Room Humidity Stop	000.0%	90.0%	Settings for reading Humidity Sensor
Screen Ref – 17			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Erase Alarm History	Y/N	N	Erases Alarm History
Screen Ref – 18			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Local Network Mode	See Note	See Note	Master Control or Rotate by Time or Alarms
Screen Ref – 19			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Units in Standby	000	See Note	Assigns No. of Units in Standby
Reset Sequence	Y/N	See Note	Resets the Rotation Sequence
Screen Ref – 20			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Hours/Minutes	Hour/Min	See Note	Select Hours or Minutes
Rotation Time	000	See Note	Can be set up to 999
Screen Ref – 21			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Force Unit in Standby Mode	Y/N	See Note	Makes Standby Units Available
Delay Time Low Temperature	000	See Note	Time Delay to Start Standby Units Low Temperature
Delay Time High Temperature	000	See Note	Time Delay to Start Standby Units High Temperature
Screen Ref – 22			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Low Temperature Offset	00.0 C	08.0 C	Starts Standby Units 8C below Setpoint
Low Temperature Differential	00.0 C	04.0 C	Stops Standby Units 4C below Setpoint
Screen Ref – 23			
TEXT	OPTION	FACTORY SET	DESCRIPTION
High Temperature Offset	00.0 C	08.0 C	Starts Standby Units 8C above Setpoint
High Temperature Differential	00.0 C	04.0 C	Stops Standby Units 4C above Setpoint

TIMING – SUBSECTION.

TABLE NO. 3

Screen Ref -1			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Time delay switching main fan on.	0000 Sec	0001 Sec	Main fan start up delay time.
Time delay switching main fan off.	0000 Sec	0020 Sec	Main fan off delay time.
Screen Ref -2			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Integral time (only P+I Control)	0000 Sec	0600 Sec	Integration time for P+I control.
Screen Ref -3			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Low pressure alarm delay time.	0000 Sec	0180 Sec	Low pressure alarm override time
Temp / Hum alarm delay time.	0000 Sec	0600 Sec	Temperature & Humidity Alarm Time Delays
Screen Ref -4			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Delay Alarm – Air Flow	0000 Sec	0010 Sec	Air Flow Alarm time Delay

TABLE NO. 3 CONTINUED

Screen Ref -5			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Delay Serious Alarm	0000 Sec	0000 Sec	Serious Alarm Time Delay
Delay Non-Serious Alarm	0000 Sec	0000 Sec	Non Serious Alarm Time Delay
Screen Ref – 6			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Compressor Min Off Time	0000 Sec	0180 Sec	Defines Minimum Compressor on Time
Compressor Min On Time	0000 Sec	0060 Sec	Defines Minimum Compressor off Time
Screen Ref – 7			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Winter Start LP Override Delay	0000 Sec	0180 Sec	LP Switch time delay for Winter Start
Screen Ref – 8			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Start Delay Same Compressor	0000 Sec	0360 Sec	Defines Start Delay of the Same Compressor
Compressor Inter Stage Delay	0000 Sec	0010 Sec	Defines an Inter Stage Delay for Twin Compressors
Screen Ref – 9			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Heater Inter Stage Delay	0000 Sec	0003 Sec	Heater Inter Stage Delay

UNIT INITIALISATION – SUBSECTION

TABLE NO. 4

Screen Ref – 1			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Press Enter Key to insert default values	N/A	N/A	Pressing the enter key will insert default values
Screen Ref – 2			
TEXT	OPTION	FACTORY SET	DESCRIPTION
New Manufacturers Password	0000	N/A	Allows Manufacturers Password to be changed

Notes

1. Great care must be exercised in this section as using this will reload the factory settings but the unit must then be re-configured to reflect the installed options. Default unit is a single circuit DX unit with 2 stage heating.
2. Alarm History can also be cleared in this section.

USER SECTION



The screen below appears when the **‘prog’** button is pressed . This section is password protected and the relevant password is required for access. To enter the password the **“up”** and **“down”** arrow keys are used.

TABLE NO. 5

Screen Ref – 1			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Enable On/Off Keyboard	Y/N	Y	Enables/Disables On/Off at Display

TABLE NO. 5 CONTINUED

Screen Ref – 2			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Temperature setpoint limits			
Minimum.	00.0 C	16.0 C	Minimum allowable temperature setpoint value entered.
Maximum.	00.0 C	24.0 C	Maximum allowable temperature setpoint value entered.
Screen Ref – 3			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Humidity setpoint limits			
Minimum.	000.0 %	35.0%	Minimum allowable humidity setpoint value entered.
Maximum.	000.0 %	65.0%	Maximum allowable humidity setpoint value entered.
Screen Ref – 4			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Temperature -Cooling Band	000.0 C	See Note	002.0 C DX Units & 001.7 C CW & Freecooling Units
Temperature -Heating Band	000.0 C	See Note	002.0 C DX Units & 001.7 C CW & Freecooling Units
Temperature -Neutral Zone	000.0 C	See Note	000.0 C DX Units & 000.3 C CW & Freecooling Units
Screen Ref – 5			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Humidity Control Band	00.0%	04.0%	Control Humidity Band – Humidification
Humidifier Output Limit	00.0kg/hr	See Note	Depends on size of unit.
Screen Ref – 6			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Remote on/off enable.	Y/N	Y	Enables remote on/off shutdown facility.
Auto Restart after Power Failure	Y/N	Y	Allows Unit to be swiched off after Power Failure
Screen Ref – 7			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Freecooling Offset	00.0 C	05.0 C	Diff Water & Return Air Temps to start Freecooling
Differential Start Freecooling	00.0 C	00.5 C	Diff in Water Temps above start to stop Freecooling
Screen Ref – 8			
Temperature Alarm - Low Offset	00.0 C	6.0 C	Room low temperature alarm offset from setpoint.
Temperature Alarm - High Offset	00.0 C	6.0 C	Room high temperature alarm offset from setpoint.
Screen Ref – 9			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Humidity Alarm - Low Offset	000.0 %	020.0 %	Room low humidity alarm offset from setpoint.
Humidity Alarm - High Offset	000.0 %	020.0 %	Room high humidity alarm offset from setpoint.
Screen Ref – 10			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Temp Alarm Entering Water Low	00.0 C	-05.0 C	Entering Water Low Temp Alarm Threshold
Temp Alarm Entering Water High	00.0 C	40.0 C	Entering Water High Temp Alarm Threshold
Screen Ref – 11			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Select Alarm Type	See Note	See Note	S=Serious & N=Non-serious. For Alarms : 1-18
Screen Ref – 12			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Select Alarm Type	See Note	See Note	S=Serious & N=Non-serious. For Alarms : 19-36
Screen Ref – 13			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Identification number for BMS	000	N/A	If connected to a Supervisor, unit must be addressed.
Protocol Type	See Note	See Note	Carel or Modbus.
Screen Ref – 14			
TEXT	OPTION	FACTORY SET	DESCRIPTION
New user password	0000	N/A	Enter new user defined user password.

MAINTENANCE SECTION



The screens below appears when the “**spanner**” button is pressed . This section is password protected and the relevant password is required for access to some screens. To enter the password the “**up**” and “**down**” arrow keys are used.

TABLE NO. 6

Screen Ref -1			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Run Hours Fan.	0000	N/A	Gives Fan Run Hours
Run Hours Compressor 1	0000	N/A	Gives Compressor 1 Run Hours
Run Hours Compressor 2	0000	N/A	Gives Compressor 2 Run Hours
Screen Ref -2			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Alarm History	N/A	N/A	Press Alarm Button to view Alarm History
Screen Ref -3			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Password	0000	0000	Password Required
Screen Ref -4			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Fan Hours Alarm Threshold	000 x 000	200 x 1000	Fan Run Hours Alarm Threshold
Reset	000000	N/A	Reset of Run Hours Fan
Screen Ref -5			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Comp 1 Hours Alarm Threshold	00 x 000	100 x 1000	Compressor 1 Run Hours Alarm Threshold
Reset	000000	N/A	Reset of Run Hours Compressor 1
Screen Ref -6			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Comp 2 Hours Alarm Threshold	00 x 000	100 x 1000	Compressor 2 Run Hours Alarm Threshold
Reset	000000	N/A	Reset of Run Hours Compressor 1
Screen Ref – 7			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Probe Setting - Humidity	0.0%	0.0%	Allows Sensor Recalibration. +/- 9.9 % Available
Screen Ref –8			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Probe Setting – Return Air Temp	+/-9.9 C	00.0 C	Allows Sensor Recalibration. +/- 9.9 C Available
Probe Setting – Supply Air Temp	+/-9.9 C	00.0 C	Allows Sensor Recalibration. +/- 9.9 C Available
Probe Setting – Enter Water Temp	+/-9.9 C	00.0 C	Allows Sensor Recalibration. +/- 9.9 C Available
Screen Ref – 9			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Probe Setting – External Air Temp	+/-9.9 C	00.0 C	Allows Sensor Recalibration. +/- 9.9 C Available

Notes :

1. With unit on/off set as off, additional screens for manual enable of all analogue & digital outputs available.

INPUTS / OUTPUTS SECTION



TABLE NO. 7

Screen Ref -1			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Analog Input Return Air Temp	N/A	N/A	Active Readout of I/O
Analog Input Return Air Humidity.	N/A	N/A	Active Readout of I/O
Screen Ref -2			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Analog Input Supply Air Temp	N/A	N/A	Active Readout of I/O
Analog Input Enter Water Temp	N/A	N/A	Active Readout of I/O
Screen Ref -3			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Analog Input External Air	N/A	N/A	Active Readout of I/O
Screen Ref -4			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Digital Inputs	N/A	N/A	Active Readout of I/O
Screen Ref -5			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Analog Outputs	N/A	N/A	Active Readout of I/O
Screen Ref - 6			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Digital Outputs	N/A	N/A	Active Readout of I/O
Screen Ref - 7			
TEXT	OPTION	FACTORY SET	DESCRIPTION
Humidifier Contactor	N/A	N/A	Active Readout of I/O
Humidifier Fill Valve	N/A	N/A	Active Readout of I/O
Humidifier Drain Valve	N/A	N/A	Active Readout of I/O
Screen Ref - 8	N/A	N/A	Active Readout of I/O
TEXT	OPTION	FACTORY SET	DESCRIPTION
Humidifier Measured Current	N/A	N/A	Active Readout of I/O
Humidifier Target Current	N/A	N/A	Active Readout of I/O
Humidifier Nominal Current	N/A	N/A	Active Readout of I/O
Screen Ref - 9	N/A	N/A	Active Readout of I/O
TEXT	OPTION	FACTORY SET	DESCRIPTION
Humidifier Water Level	N/A	N/A	Active Readout of I/O
Humidifier Electrical Conductivity	N/A	N/A	Active Readout of I/O
Humidifier Production	N/A	N/A	Active Readout of I/O
Screen Ref - 10			
Humidifier Cylinder Worn	N/A	N/A	Active Readout of I/O
Humidifier Cylinder Mode	N/A	N/A	Active Readout of I/O
Humidifier Cylinder Status	N/A	N/A	Active Readout of I/O

ALARMS SECTION

Notes :

1. Please note that the ALARMS generated will depend on the unit type & configuration.
2. There may also be some additional alarms which are order specific.
3. A05, A06 & A09 are deemed Serious alarms by default. This can be changed by the user.
4. A35 will always disable the Humidifier whether set as Serious or Non-Serious
5. All alarms can be set as Serious or Non-Serious in the user section of the controller. All serious alarms will shut down the unit

ALARM LIST

A 01	Compressor 1 HP / Thermal Overload
A 02	Compressor 2 HP / Thermal Overload
A 03	Compressor 1 LP
A 04	Compressor 2 LP
A 05	Air Flow Alarm (Serious Alarm)
A 06	Air Flow Alarm – Slave (Serious Alarm)
A 07	Alarm Electric Reheat High Temp Trip
A 08	Condensate Pump / High Water Level
A 09	Smoke/Fire (Serious Alarm)
A 10	Alarm Air Filter
A 11	High Temperature Alarm
A 12	Low Temperature Alarm
A 13	High Humidity Alarm
A 14	Low Humidity Alarm
A 15	High Entering Water Temperature
A 16	Low Entering Water Temperature
A 17	Compressor 1 Run Hours
A 18	Compressor 2 Run Hours
A 19	Fan Run Hours
A 20	Return Air Temperature Probe Fault Or Offline
A 21	Entering Water Temperature Probe Fault Or Offline
A 22	External Air Temperature Probe Fault Or Offline
A 23	Supply Air Temperature Probe Fault Or Offline
A 24	Return Air Humidity Probe Fault Or Offline
A 25	Spare / Custom
A 26	Spare / Custom
A 27	Spare / Custom
A 28	High Current Into Humidifier
A 29	Lack Of Water Into Humidifier
A 30	Lack Of Current Into Humidifier
A 31	Alarm Clock
A 32	Spare / Custom
A 33	Spare / Custom
A 34	Spare / Custom
A 35	Water Under Floor
A 36	Spare / Custom