

Factory Memory Reset

To restore all programming functions to the Factory Setting, first switch to Off Mode and then simultaneously press and hold the POWER and MODE keys. Hold keys for three seconds while "00" flashes in the display. Successful memory reset is indicated by a "1" flashing back and forth across the display; release keys. System returns to the Off Mode.

NOTE: Performing a Factory Memory Reset will not change the value of Function Numbers 21 & 22. Also note that Function Number 2, which displays Fahrenheit or Celsius, reverts back to °F each time.

Fault Code Displays

If an operational failure occurs, such as low voltage or high/low pressure, a flashing fault code message will be displayed. Fault code displays are canceled by pressing the POWER key.

Fault Code Summary Table

Fault Code	Indication	Result
LO / AC	Operating voltage remained below acceptable limit for three minutes or more (100V for a 115V system or 200V for a 230V systems).	Shutdown
HI / PS*	Head pressure above 425 PSI.	Shutdown
LO / PS**	Head pressure below 30 PSI.	Shutdown
PE	Software program error.	Shutdown

* Indicates pump failure or loss of water flow.

**Indicates loss of gas; or water too cold for heating during Heat Mode.

Note: Procedures listed herein are for the SMXht keypad/display operating with an SMXII-HV power/logic board.

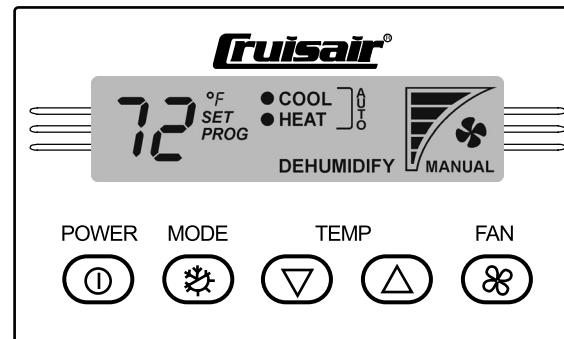
See the SMX II Control Systems (DX) Installation/Operation manual for more detailed instructions and information.



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SMXht Keypad/Display for DX Basic Operation & Programmer's Pocket Guide

SMX II Series Control Systems for Direct Expansion



Basic Operation

Turning the System On:

Press the POWER or MODE keys to turn the system on. In three seconds, the system will start operating in whatever mode it was running prior to the last shut down. Press the MODE key prior to three seconds (while the display is flashing) to change mode before system starts, or any time to change the mode while the system is on. The modes available are: Cool, Heat, Auto Switchover (automatically switches from Cool to Heat Mode), or Dehumidification Mode. A solid dot will light up next to the words COOL or HEAT when the compressor is on and running in that mode.

Selecting the Setpoint:

Press the Up or Down Arrow keys to adjust the setpoint (press and hold keys to scroll); wait three seconds after powering up system. The word SET will appear in the display while setpoint is being adjusted. The setpoint range is 55-99°F (10-40°C). Inside cabin temperature is continuously displayed.

Adjusting the Fan Speed:

The FAN key is used to adjust the fan speed while in Manual Fan Speed Mode and to switch from Manual to Automatic Fan Speed Modes. The fan may be run manually whether the system is on or off. The word MANUAL appears in the display while in that mode. Automatic Fan Speed Mode may be operated only when the system is on. Fan behavior also depends on how the Fan Mode function is programmed - "C" for continuous or "I" for intermittent running with the compressor (see Programming below).

Dimming the Display:

Press the MODE and Up Arrow keys simultaneously and repeatedly to select the display brightness setting.

Backlight Mode:

While in the Sleep Mode (backlight is off) press any button to light the display, and then operate as usual.

Important Memory Function:

After changing modes, programming settings, setpoint, etc., wait at least 30 seconds before turning off main power supply in order for new settings to be maintained in memory.

Programming

SMXht keypad/display must be in the Off Mode prior to entering Programming Mode; pressing the POWER key turns the display off or on. Once in the Off Mode, then:

1. Simultaneously press and hold the MODE and Down Arrow keys for three seconds. Successful entry into the Programming Mode is indicated by the word "PROG" and a flashing "1" in the display.
2. Use the Up or Down Arrow keys to scroll until the desired program Function Number is displayed.
3. Press the MODE key to enter the desired function. The current value and the word "PROG" will be displayed.
4. Use the Up or Down Arrow keys to change the value of that program.
5. Press the POWER key to save the new settings, exit the Programming Mode, and return to the Off Mode.

Note: If SMXht is programmed for displaying °C (rather than the factory setting °F), then functions 3 & 4 should be adjusted. For function 3, the factory setting of 12 (or 1.5°F) should be changed to 7 (7/8 = 0.8°C). For function 4, the factory setting of 4 (or 0.5°F) should be changed to 2 (2/8 = 0.3°C). For these functions, 1°F (or 8) = 0.6°C (or 5).

See Programming Summary Table.

Programming Summary Table for SMXht Keypad/Displays

Programmable Function	Function Number	Factory Setting	Range
Compressor Time Delay	1	0	0 - 70 sec
Fahrenheit/Celsius	2	F	F or C
Compressor Differential	3	12 (12/8 = 1.5")	2 to 31
Fan Response Differential	4	4 (4/8 = 0.5")	2 to 31
Low Fan Speed	5	38	2 to 57
High Fan Speed	6	60	41 to 99
Fan Mode	7	C	C or I
AC Line Voltage Calibration	8	-	± 1%
Temperature Calibration	9	-	± 1%
HU (Humidity) Precirculation	10	10 (min)	0 to 30 min
HU Dehumidification	11	30 (min)	10 to 60 min
HU Time Period	12	12 (hrs)	2 to 16 hrs
Variable or 2-Speed Fan (2-Speed Fan for SMX Net only)	13	F1 (variable)	F1 or F2 (2-Speed)
High to Low Speed Adjustment (2-Speed Fan for SMX Net only)	14	38	00 to 6E
Software Version	15	Current Version	
Software Revision	16	Current Revision	
Low Pressure Switch Test	17	OA = Okay FA = Fault	n/a
High Pressure Switch Test	18	OA = Okay FA = Fault	n/a
LED Segment Test	19	Lights all LED Segments	n/a
Backlight Mode	20	On	On = continuous SL = sleep mode
Select DX or TW power/logic board	21	dE	dE=DX or CH=TW (do not change)
Select SMXII power/logic board. (SMX Net will be available in future)	22	II	II or nE (Net) (do not change)