

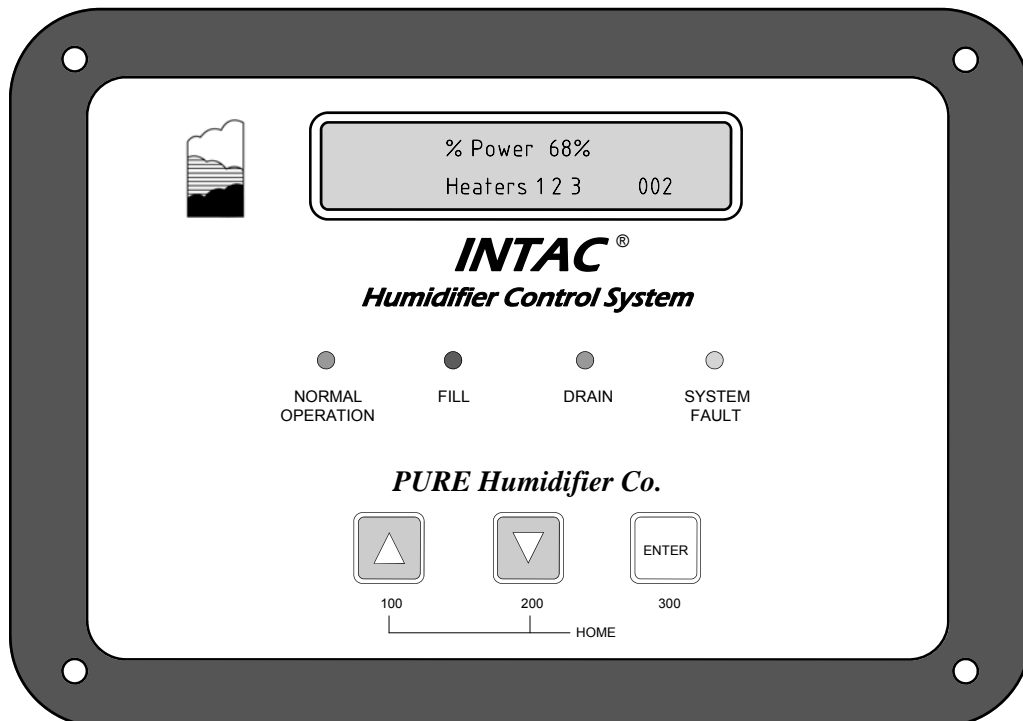


"Read and Save These Instructions"

INTAC[®] ***Microprocessor Humidifier Controller***

Installation Instructions

Operation and Maintenance Manual

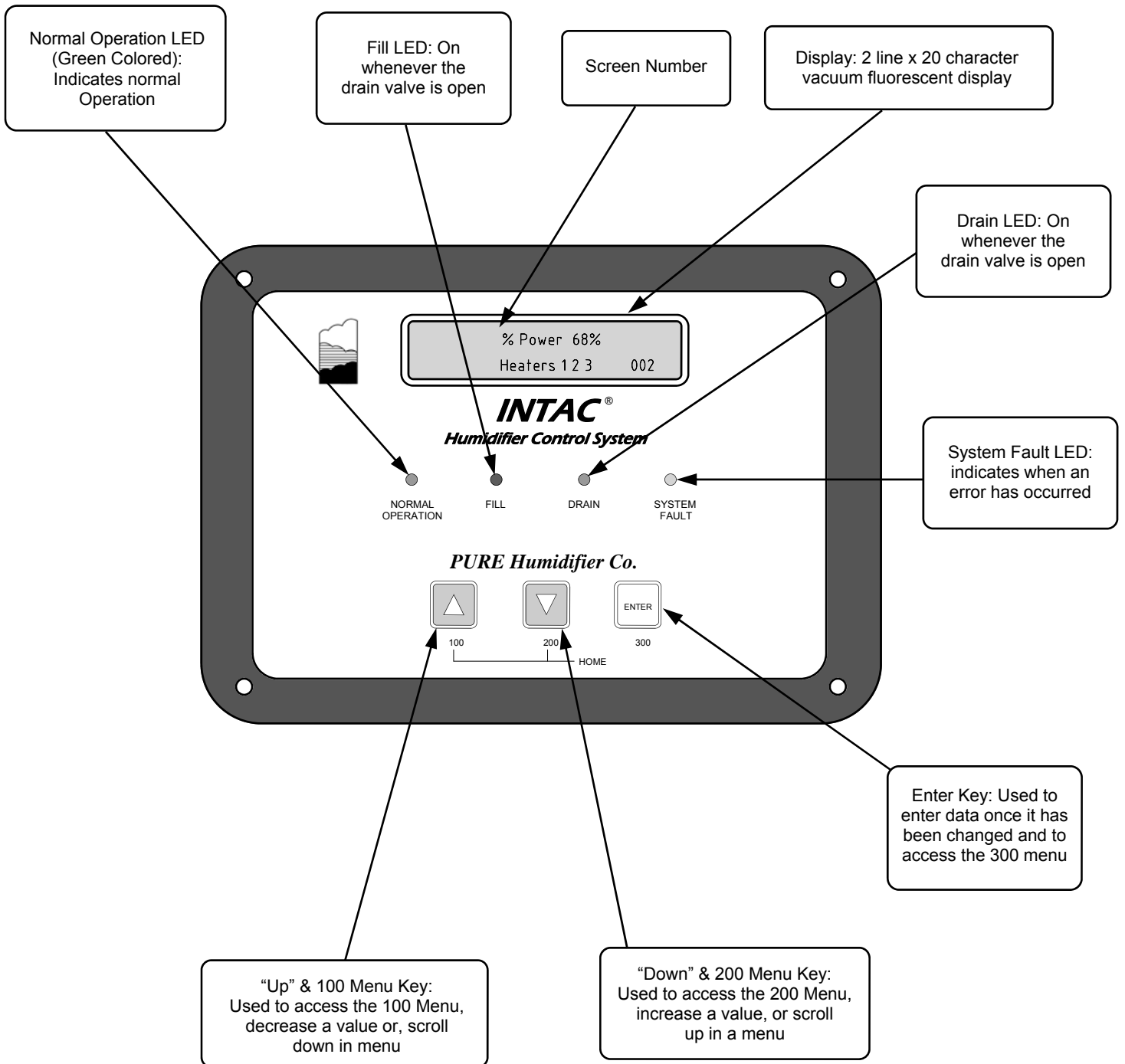


Our results are comforting

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INTAC[®] Features





100, 200, 300 KEYS ARE USED TO ACCESS CORRESPONDING MENU
DEPRESS 200 & 300 KEYS TO ACCESS THE 500 MENU

The Home Display is accessed by depressing the 100 & 200 keys simultaneously
(Home=Home Display)

INTAC[®] Menus Overview

HOW TO NAVIGATE:

Press  and  simultaneously to exit any menu and reach the home display at any time.

Press  or  to move up or down through the home display or menu screens.

To access a menu, press and hold the corresponding numbered menu key for three (3) seconds. To access the 500 Menu, press and hold the



 and  simultaneously for three (3) seconds.

Press  to activate a menu prompt. The prompt will begin to blink.

Press  or  to select a prompt value.

Press  to enter a prompt value.

Notes:

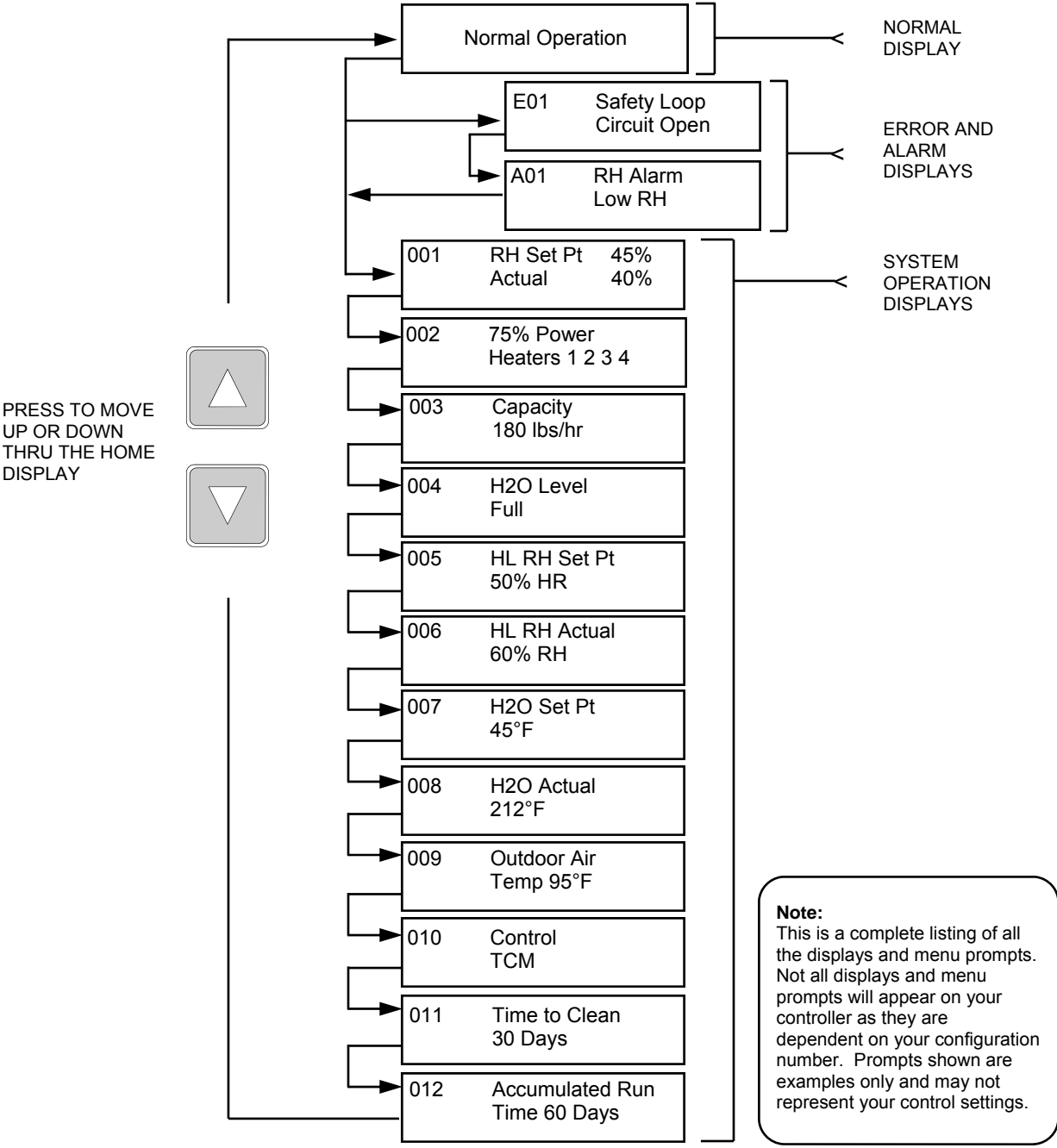
> Menus can only be accessed from the home display. Press  and  simultaneously to exit any menu and reach home display.

100

200

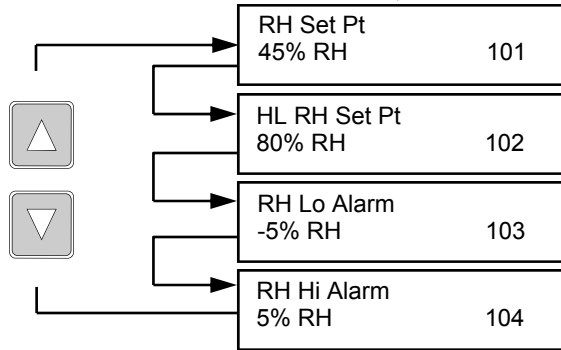
INTAC[®] Menus

HOME DISPLAY





100



PRESS TO MOVE UP OR DOWN THRU THE HOME DISPLAY



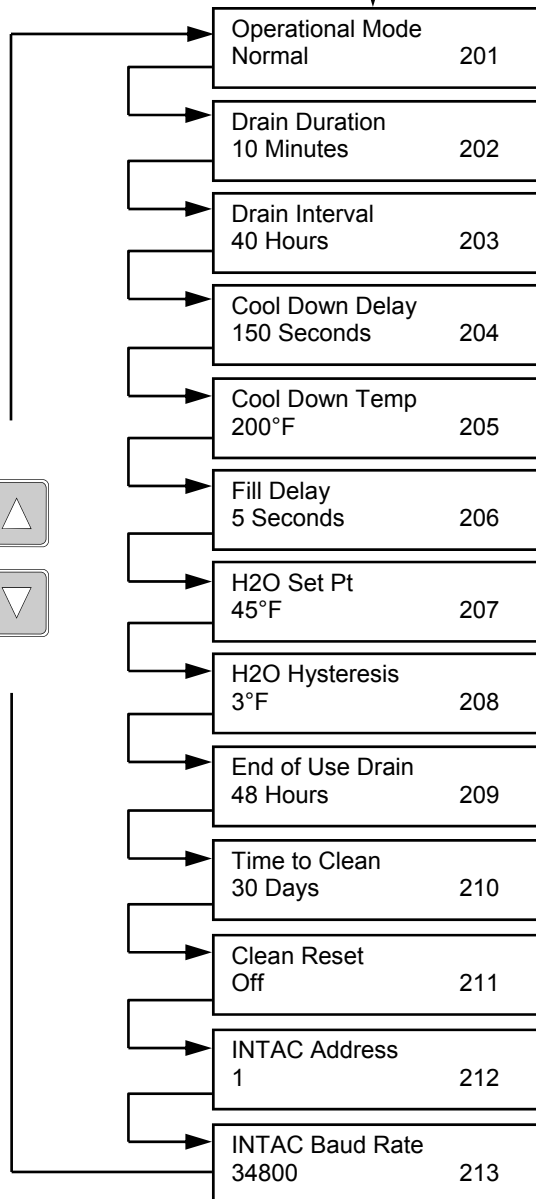
MENU 100

PRESS AND HOLD FOR 3 SECONDS UNTIL MENU APPEARS

MENU 100 - CONTROL PARAMETERS



200



PRESS TO MOVE UP OR DOWN THRU THE HOME DISPLAY



MENU 200

PRESS AND HOLD FOR 3 SECONDS UNTIL MENU APPEARS

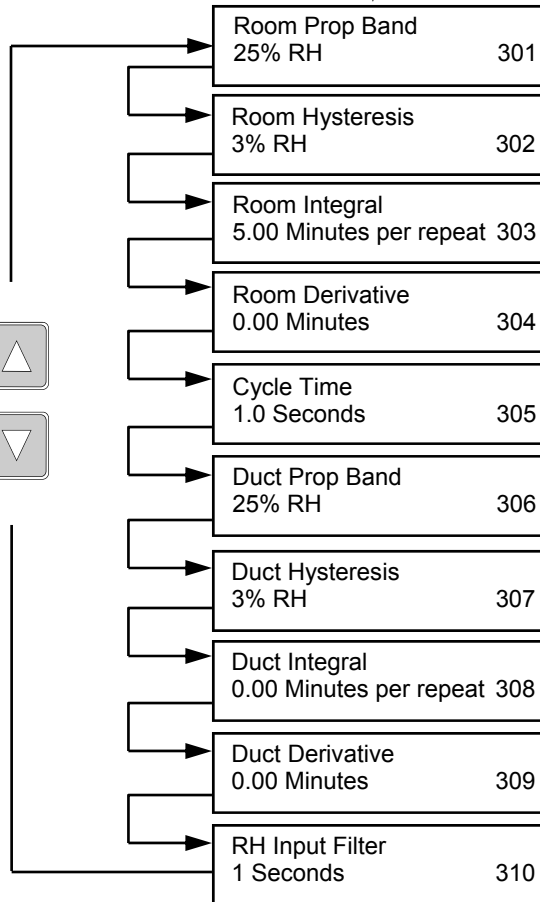
MENU 200 - WATER & COM PARAMETERS

Note:

This is a complete listing of all the displays and menu prompts. Not all displays and menu prompts will appear on your controller as they are dependent on your configuration number. Prompts shown are examples only and may not represent your control settings.



300



PRESS TO
MOVE UP OR
DOWN THRU
THE HOME
DISPLAY



MENU 300

PRESS AND HOLD FOR
3 SECONDS UNTIL MENU
APPEARS

MENU 300 - PID (PROPORTIONAL,
INTEGRAL & DERIVATIVE)
PROMPTS

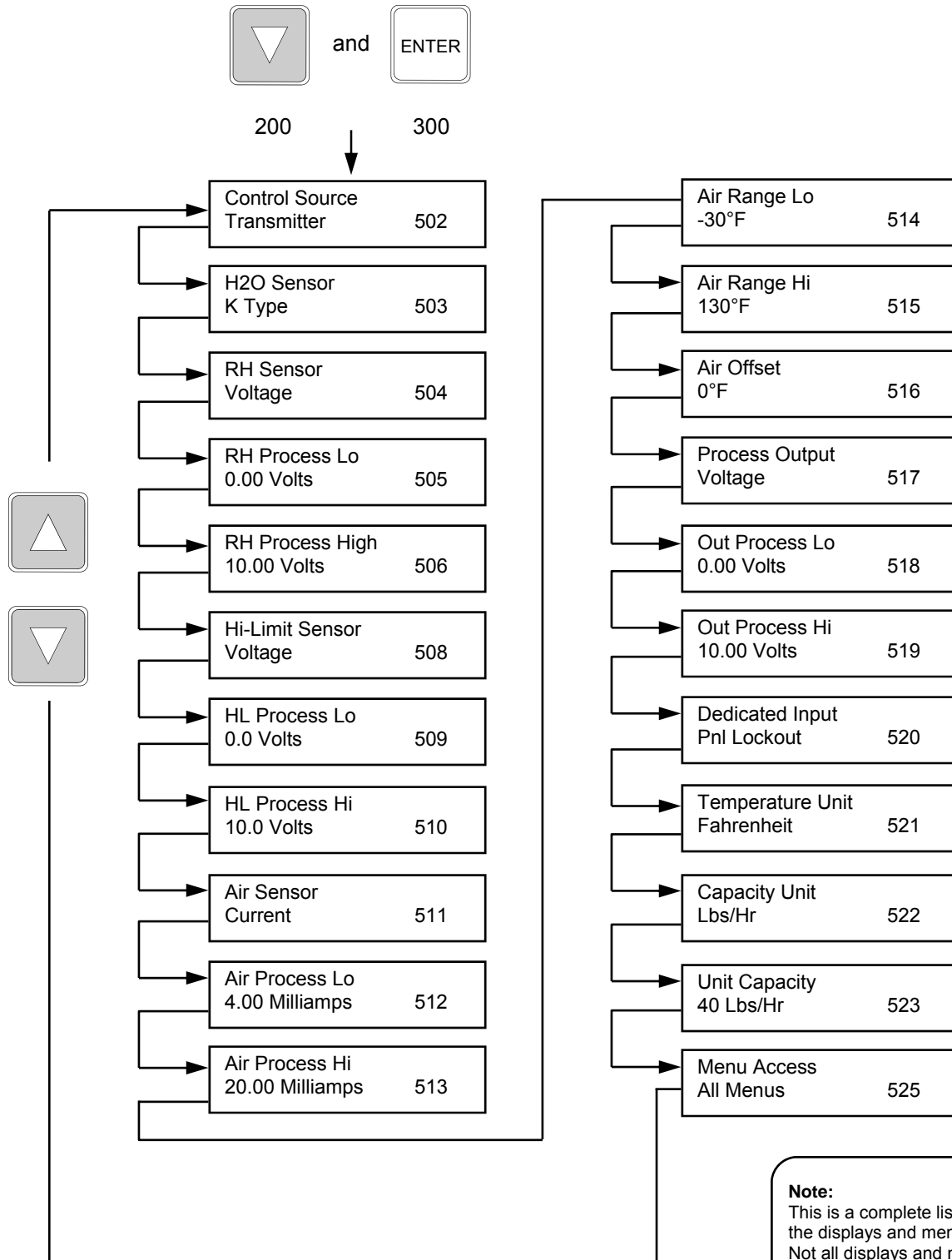
Note:

This is a complete listing of all the displays and menu prompts. Not all displays and menu prompts will appear on your controller as they are dependent on your configuration number. Prompts shown are examples only and may not represent your control settings.

MENU 500

PRESS AND HOLD FOR
3 SECONDS UNTIL MENU
APPEARS

MENU 500 - INSTALLATION
PARAMETERS



INTAC® CONFIGURATION CODES COMPLETE LISTING

INTAC® MENU	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION
101	RH Set Pt	RANGE: 0% to 100% RH	45%	Area humidification setpoint
102	HL RH Set Pt	RANGE: 0% to 100% RH	80%	Supply air high-limit setpoint
103	RH Lo Alarm	RANGE: -100% to -1% RH	-5%	Low humidity alarm activates when actual RH is below setpoint
104	RH Hi Alarm	RANGE: 1% to 100% RH	5%	High humidity alarm activates when actual RH is above setpoint
201	Operation Mode	Normal	x	Normal operation mode
		Stand-by		Output of humidifier shut OFF while in Stand-by mode
		Forced Drain		Drain valve forced open, humidifier output shut OFF
		Flush		Fill valve forced open, humidifier output shut OFF
202	Drain Duration	RANGE: 0 to 120 minutes	10	Time drain valve stays open (in minutes) during Auto-drain cycle
203	Drain Interval	RANGE: 1 to 500 Hours	40	Time between Auto-drain cycles in hours of operation
204	Cool Down Delay	RANGE: 0 to 150 Seconds	150	While in Fill cycle, time (in seconds) before Auto-drain cycle begins
		RANGE: 27° to 100° C	60	The water temperature must be at or below before drain valve will open
205	Cool Down Temp	RANGE: 80° to 212°F	140	The water temperature must be at or below before drain valve will open
		RANGE: 27° to 100° C	60	The water temperature must be at or below before drain valve will open
206	Fill Delay	RANGE: 0 to 15 Seconds	5	Water overflow time delay to cause overflow
207	H2O Set Pt	RANGE: 40° to 200° F	40	For freeze protection or stand-by water temperature
		RANGE: 4° to 93°C	4	For freeze protection or stand-by water temperature
208	Water Hysteresis	RANGE: 1° to 50°F	3	Accuracy of water temperature control or deadband
		RANGE: 1° to 28°C	2	Accuracy of water temperature control or deadband
209	End of Use Drain	RANGE: 0 to 168 Hours	48	Time delay during humidifier NON-USE, before system drains itself
210	Time to Clean	RANGE: 0 to 365 Days	30	Message that its time to service the humidifier
211	Clean Reset	Off	x	Time to clean timer is accumulating run time
		On		Time to clean timer has been reset to zero
212	INTAC Address	RANGE: 1 to 247	1	Address for Modbus coms

INTAC [®] MENU	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION
213	INTAC Baud Rate	9600		
		19200		
		38400	x	
301	Room Prop Band	RANGE: 0% to 100% RH	25%	Main RH control parameter
302	Room Hysteresis	RANGE: 1 to 50	3	When menu 301=0 this sets the dead band for on/off control
303	Room Integral	RANGE: 0.00 to 60.00	5.00	Main RH control parameter
304	Room Derivative	RANGE: 0.00 TO 9.99	0.00	Main RH control parameter
305	Cycle Time	RANGE: 1 to 240 Seconds	1 or 30	Set at 1 second for SCR control, set at 30 seconds for TCM control
306	Duct Prop Band	RANGE: 0% to 100% RH	25%	Hi-Limit RH control parameter
308	Duct Integral	RANGE:0.00 to 9.99	0.00	Hi-Limit RH control parameter
309	Duct Derivative	RANGE: 0.00 to 9.99	0.00	Hi-Limit RH control parameter
310	RH Input Filter	RANGE: 0 to 60 seconds	1	For attenuating a noisy humidity signal
502	Control Source	Transmitter	x	Controller receives RH signal from local wall or duct type humidistat
		Process Signal		Controller receives RH control signal from building management system
503	Water Sensor	K Type	x	Standard type K thermocouple used in all applications
		J Type		Type J thermocouple (Note: special INTAC [®] wiring harness required)
		None		No water sensor input available
		T Type		Type thermocouple (Note: special INTAC [®] wiring harness required)
504	RH Sensor	Current		Controlling RH sensor—Modulating current input
		Voltage	x	Controlling RH sensor—Modulating voltage input
505	RH Process Lo	RANGE: 0.0 to 20.00 mA	4.00	Controlling RH sensor—Low range in Milliamps
		RANGE: 0.00 to 10.00 VDC	0.00	Controlling RH sensor—Low range in Volts

INTAC® MENU	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION
506	RH Process Hi	RANGE: 0.00 to 20.00 mA	20.00	Controlling RH sensor—High range in Milliamps
		RANGE: 0.0.0 to 10.0 VDC	10.00	Controlling RH sensor—High range in Volts
508	Hi-Limit Sensor	None	x	No High Limit input available (set with menu 707)
		Current		High Limit RH sensor—Modulating current input (mA DC)
		Voltage		High Limit RH sensor—Modulating voltage input (VDC)
509	HL Process Lo	RANGE: 0.00 to 20.00 mA	4.00	High Limit RH sensor—Low range in Milliamps
		RANGE: 0.00 to 10.00 VDC	0.00	High Limit RH sensor—Low range in Volts
510	HL Process Hi	RANGE: 0.00 to 20.00 mA	20.00	High Limit RH sensor—High range in Milliamps
		RANGE: 0.00 to 10.00 VDC	10.00	High Limit RH sensor—High range in Volts
511	Air Sensor	None	x	No air temperature sensor input available (set with menu 704)
		Current		Current input for outside air temperature sensor
512	Air Process Lo	RANGE: 2.00 to 20.00 mA	4.00	Outside air—Low range in Milliamps
513	Air Process Hi	RANGE: 2.00 to 20.00 mA	20.00	Outside air—Low range in Milliamps
514	Air Range Lo	RANGE:-100° to +1000°C	0.0	Low range scale for outside air temperature sensor in °C
		RANGE:-100° TO +1000°F	-30	Low range scale for outside air temperature sensor in °F
515	Air Range Hi	RANGE:-100° to +1000°C	55	High range scale for outside air temperature sensor in °C
		RANGE:-100° TO +1000°F	130	High range scale for outside air temperature sensor in °F
516	Air Offset	RANGE : 0° to +60°F	0	Offset to calibrate temperature sensor to outside air temp in degrees Fahrenheit
		RANGE: 0° to +33°C	0	Offset to calibrate temperature sensor to outside air temp in degrees Celsius
517	Process Output	Current		Output signal (mA DC) for device or actuator—INTAC® terminals 33-34
		Voltage	x	Output signal (VDC) for device or actuator—INTAC® Terminals 33-34
518	Out Process Lo	RANGE:0.00 to 8.00 mA	4.00	Process output signal—Low range in Milliamps
		RANGE: 0.00 to 3.00 VDC	0.00	Process output signal—Low range in Volts
519	Out Process Hi	RANGE: 10.00 to 20.00 mA	20.00	Process output signal—High range in Milliamps
		RANGE: 3.00 to 10.00 VDC	10.00	Process output signal—High range in Volts

INTAC® MENU	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION
520	Dedicated Input	Not Used	x	Dedicated input turned off
		Dedicated Event		INTAC® terminals J1-5, J1-6 <i>OPEN</i> ; humidifier output shuts off
		Hi Limit Open		Used to display when supply air humidity is above the safety high limit setpoint. Connect high limit to terminals J1-5, J1-6
		Auto Drain		Closed contact will start an auto drain
		Pnl Lockout		INTAC® terminals J1-5, J1-6 <i>CLOSED</i> ; all menus <i>LOCKED</i> including menu 520
521	Temp Units	Fahrenheit	x	All temperatures in all screens and menus are in °F
		Celsius		All temperatures in all screens and menus are in °C
522	Capacity Units	Lbs/Hr	x	All capacities in all screens and menus are in lbs/hr
		Kgs/Hr		All capacities in all screens and menus are in kgs/hr
523	Unit Capacity	RANGE: 2 to 9999	40	Unit capacity in lbs/hr
		RANGE: 2 to 9999	80	Unit capacity in kgs/hr
525	Menu Access	All Menus	x	No menus are blocked from changing configurations
		100 & 200 Menus		All menus <i>VIEW ONLY</i> except menus 100, 200, and 500
		100 Menu		All menus <i>VIEW ONLY</i> except menus 100 and 500
		No Menus		All menus <i>VIEW ONLY</i> except menu 500
701 (Factory option only)	Control Type	SCR		Solid state relay output offers the best modulating control
		SCR MOD		One heater is SCR controlled and the rest are staged
		ON/OFF	x	Non-modulating, 100% output when RH is below controller setpoint
		TCM		Time Cycle Modulation—modulates contactors for good RH control
		Steam		Modulating VDC or mA DC output signal to operate valve actuator
		Gas		For use with up to 3 gas burners
702 (Factory option only)	Active Heaters	1		One active heater
		2		Two active heaters
		3		Three active heaters
		4	x	Four active heaters

INTAC® MENU	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION	
703	Water Enable	Off	x	Water temperature sensor for cool down or water pre-heating OFF	
		(Factory option only)	On	Water temperature sensor for cool down or water pre-heating ON	
704	Air Enable	Off	x	Outside air temperature sensor for setback control OFF	
		(Factory option only)	On	Outside air temperature sensor for setback control ON	
705	Level Sensor	Tri-Probe	x	Humidifier tank level controlled by electronic Tri-probe	
		(Factory option only)	None	No tank level control available	
		Float		Humidifier tank level controlled by mechanical level controller	
706	Drain Type	Automatic		Humidifier tank drains automatically per menu 202 & 203 configurations	
		(Factory option only)	Manual	x	Humidifier tank must be drained manually via hand valve
		None		No tank drain available	
707	Hi-Limit Enable	Off	x	Modulating Hi-Limit sensor input OFF	
		(Factory option only)	On	Modulating Hi-Limit sensor input ON (INTAC® terminals 47, 46, or 48)	
708	Clean Time	Accum Time	x	Auto drain timer counts down when heater output is on	
		(Factory option only)	Elapsed Time		Auto drain timer counts down always
		On Demand		INTAC® does not time auto drain. Auto drain can only be started through the dedicated input when 520 = Auto Drain	
709	Gas Burners	RANGE: 1 to 3	1	Number of burners used on humidifier	
(Factory option only)					
710	Low Fire Set Pt	RANGE: 5 to 100	40%	% power at which burner #1 turns on	
(Factory option only)					
711	Low Fire Hys	RANGE: 1 to 99	3%	% power below Low Fire Set Point at which burner #1 turns	
(Factory option only)					
712	Burner 2 Set Point	RANGE: 5 to 100%	75%	% power at which burner #2 turns on	
(Factory option only)					
713	Burner 2 Hys	RANGE: 1 to 99%	3%	% power below Burner #2 set point at which burner #2 turns off	
(Factory option only)					

INTAC® MENU	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION
714	Burner 3 Set Point	RANGE: 5 to 100%	75%	% power at which burner #3 turns on

(Factory option only)

715	Burner 3 Hys	RANGE: 1 to 99%	3%	% power below Burner #3 set point at which burner #2 turns off
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(Factory option only)

716	Post Purge Time	RANGE: 5 to 999 seconds	30 seconds	Time the combustion fans will run after the burners turn off
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(Factory option only)

717	VFD Intensity	RANGE: 1 to 8	1	Adjusts the intensity of the display panel
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(Factory option only)

718	Range Checking	Off		Input error checking is off
		On	x	Input error checking is on

(Factory option only)

719		RANGE: 0-15 seconds	5	Time after a low water state is sensed that the heater output will be maintained
-----	--	---------------------	---	--

(Factory option only)

INTAC® OUTDOOR AIR TEMPERATURE SETBACK

As outside air temperature decreases, it may be desirable to reduce the humidifier output proportionately to reduce the risk of wetting interior surfaces within a structure. With the optional outdoor air temperature setback feature, the user is able to select a point at which the humidifier output will begin to decrease or setback. The factory default is at 32°F and is user-adjustable from 32°F to 92°F.

HOW TO BEGIN:

First, it is necessary to know the temperature range of the sensor, which are the minimum and maximum values. (Example: for the Mamac TE-211Z-B-B-2-1-E-3, the range is -30°F to +130°F with a corresponding output current of 4 to 20mA.)

Next go to:

MENU 511	Air Sensor	Select "Current" (Corresponds to the type of output)
MENU 512	Air Process Lo	Select "4.0" (Corresponds to current range Low)
MENU 513	Air Process Hi	Select "20.0" (Corresponds to current range High)
MENU 514	Air Range Lo	Select "-30°F" (Corresponds to temp range Low)
MENU 515	Air Range Hi	Select "+130°F" (Corresponds to temp range High)
MENU 516	Air Offset	Select "0°F" (Offset from 32°F)

Note: when selecting AIR OFFSET, this refers to an offset from 32°F. For example: if you wish the humidifier setback to begin at 32°F, then the Air Offset amount should be left at 0°F. If you wish the humidifier setback to begin at 45°F, then the Air Offset amount should be set at 13°F. If you wish the humidifier setback to begin at 55°F, then the Air Offset should be set at 23°F, and so on. Also, remember that the above settings are for the given example and may be different for other temperature sensors.

WHERE TO LOCATE SENSOR:

Locate the air temperature sensor in the outside air intake duct to the humidifier.

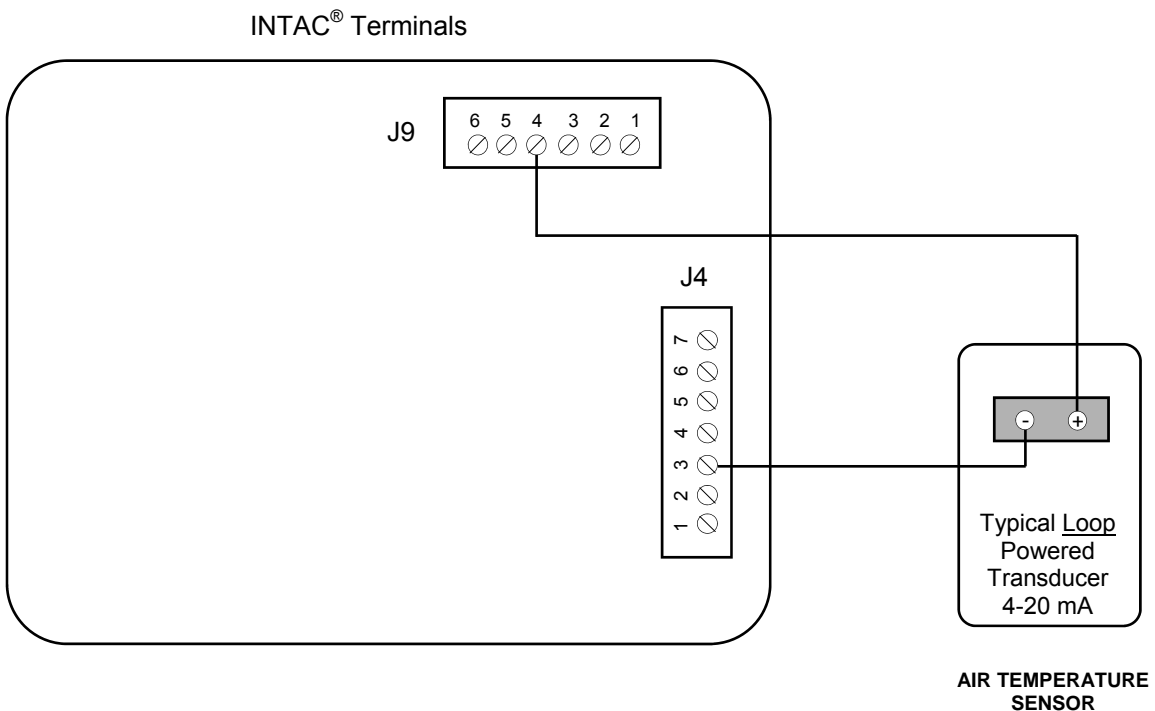
HOW TO CALIBRATE AIR TEMPERATURE SENSOR:

The air temperature sensor is factory calibrated and calibration should not be necessary if the High and Low range limits are set correctly. If a slight calibration is desired, proceed as follows:

First, determine if the INTAC[®] indication is too high or too low and by how many degrees. This can be checked by using a probe-type thermometer located near the air temp sensor and comparing the readings.

If, for example, the indicated reading is 2°F too high, a linear calibration shift can be accomplished by adjusting both Menu 514 and 515 down 2°F. If the indicated reading is 2°F too low, adjusting both Menus 514 and 515 up 2°F will correct the error. A differential that is too large may indicate a defective temperature sensor which should be replaced.

TYPICAL FIELD WIRING CONNECTIONS



INTAC[®] ERROR CODE SUMMARY

E01 Safety Loop Circuit Open

An open circuit exists in the Safety Loop Circuit. Check the following:

Terminals J6-5 & J6-6 High Limit Humidistat
Terminals J6-4 & J6-3 Air Flow Switch
Terminals J6-2 & J6-1 Over-Temp Switch*

Continuity **MUST** exist across these terminals to clear alarm

* SX and SXDDR models *do not* have an Over-Temp Switch

E02 Dedicated Event Circuit Open

An open circuit exists in the Dedicated Event Circuit. Check the following:

Terminals J1-5 & J1-6 Dedicated Event

Continuity **MUST** exist across these terminals to clear alarm

(Configuration Menu 520 turns this feature ON or OFF)

E03 Control RH Under Range

CHECK FOR THE FOLLOWING CONDITIONS:

- 1) Lost input signal from primary humidistat or Building Management System
- 2) Input signal below 6% RH (below 4 mA DC)
- 3) Input signal between 100% and 105%

Verify that Menus 502, 504, 505, & 506 match the type of input. Check signal at the input terminals:

Terminal J2-1 = Voltage (+) Input
Terminal J2-3 = Voltage (-) / Current (-) Input
Terminal J2-2 = Current (+) Input

E03 Control RH Over Range

CHECK FOR THE FOLLOWING CONDITIONS:

- 1) Input signal between 100% and 105% (process control circuits only)
- Verify that Menus 502, 504, 505, & 506 match the type of input. Check signal at the input terminals:

Terminal J2-1 = Voltage (+) Input
Terminal J2-3 = Voltage (-) / Current (-) Input
Terminal J2-2 = Current (+) Input

E03 Control RH AD Underflow-AD Overflow

Check for REVERSE polarity or EXCESSIVE SIGNAL on the input terminals:

Terminal J2-1 = Voltage (+) Input
Terminal J2-3 = Voltage (-) / Current (-) Input
Terminal J2-2 = Current (+) Input

E03 Control RH Calibration

Input not calibrated properly

E03 Control RH Ambient

Ambient temperature is below 32°F or above 176°F

E04 High Limit RH Under Range

Check for lost signal from the Hi-Limit Humidistat or Building Management System. Verify that Menus 502, 508, 509, & 510 match the type of input
Check signal at the input terminals:

Terminal J4-5 = Voltage (+) Input
Terminal J4-7 = Voltage (-) / Current (-) Input
Terminal J4-6 = Current (+) Input

E04 High Limit RH Over Range

Input signal is greater than menu 510 value

E04 High Limit RH Calibration

Input not calibrated properly

E04 High Limit AD Underflow - AD Overflow

Check for REVERSE polarity or EXCESSIVE SIGNAL on the input terminals:

Terminal J4-5 = Voltage (+) Input
Terminal J4-7 = Voltage (-) / Current (-) Input
Terminal J4-6 = Current (+) Input

E05 Outdoor Air AD Underflow

Air temperature sensor circuit open. Check for correct polarity.
Check signal at the input terminals:

Terminal J7-2 = Current (-) Input
Terminal J4-3 = Current (+) Input

E05 Outdoor Air AD Overflow

Input signal is greater than 20 mA

E05 Outdoor Air Over Range

Input signal is greater than menu 513 value

E05 Outdoor Air Under Range

Input signal is less than menu 512 value

E05 Outdoor Air Calibration

Input not calibrated properly

E05 Outdoor Air Ambient

Ambient temperature is below 32°F or above 176°F

E06 H2O Temperature AD Underflow - AD Overflow

Water temperature sensor circuit open. Check for correct polarity. Thermocouple RED wire (-) must connect to terminal J4-2 (negative). Check signal at the input terminals:

Terminal J4-1 (+) Thermocouple Yellow Wire
Terminal J4-2 (-) Thermocouple Red Wire

Check to see that the thermocouple wire corresponds to the type set in menu 503

Note: to check operation, a temporary jumper installed across terminals J4-1 & J4-2 should clear Error E06. Warning: This defeats the water temperature measuring feature, and only ambient air temp will be indicated.

E06 H2O Temperature Over Range

Temperature is above menu 207 value

E06 H2O Temperature Under Range

Temperature is below menu 207 value

E06 H2O Temperature Calibration

Input is outside of calibration

E06 H2O Temperature Ambient

Ambient temperature is below 32°F or above 176°F

E07 H2O Level-Low Float

DDR applications only. Low water float switch is open, check terminals:

Terminals J5-1 & J5-2 Float Switch

E07 H2O Level-Fill Fault

Tri-Probe application only. Check connections to the Tri-Probe Assembly.

Terminal J2-4 = Short Probe (Gray Wire)
Terminal J2-5 = Medium Probe (Violet Wire)
Terminal J2-6 = Long Probe (Blue Wire)
Terminal J2-7 = Tank Ground (Green Wire)

Occurs when the fill valve has been on continuously for 2 hours following an:

- Auto Drain
- Initial power up
- Coming out of End of Season

Check water source supply. Verify that water is actually filling the tank to the TOP water level probe.

Note: To reset this alarm message, momentarily switch the power off and on to the INTAC® Controller.

E07 H2O Level-Bad Tri-Probe

Tri-Probe application only. Check connections to the Tri-Probe Assembly.

Terminal J2-4 = Short Probe (Gray Wire)
Terminal J2-5 = Medium Probe (Violet Wire)
Terminal J2-6 = Long Probe (Blue Wire)
Terminal J2-7 = Tank Ground (Green Wire)

Note: To check operation, temporarily install three (3) jumpers across terminals J2-4, J2-5, J2-6, and J2-7. This should clear Error Code E07.

WARNING: This procedure defeats the low water safety circuit. Ensure there is an adequate amount of water in the humidifier tank before proceeding. If this procedure clears the error code, check the Tri-Probe Assembly and its associated wiring. Verify tank grounding to terminal J2-7.

E07 H2O Level-Refill Fault

Tri-Probe application only. Check connections to the Tri-Probe Assembly.

Terminal J2-4 = Short Probe (Gray Wire)
Terminal J2-5 = Medium Probe (Violet Wire)
Terminal J2-6 = Long Probe (Blue Wire)
Terminal J2-7 = Tank Ground (Green Wire)

Occurs when fill valve has been on continuously for 1 hour

Check water source supply. Verify that water is actually filling the tank to the TOP water level probe.

Note: To reset this alarm message, momentarily switch the power off and on to the INTAC[®] Controller.

E07 H2O Level-Plugged Drain

Unit did not drain properly during drain cycle. Check for sediment blockage in drain valve and drain line.

E08 Module I/O Error - DLCM #1

Communication error with Control Module #1

E08 Module I/O Error - DLCM #2

Communication error with Control Module #2

E08 Module I/O Error - WLCM

Communication error with Water Level Control Module

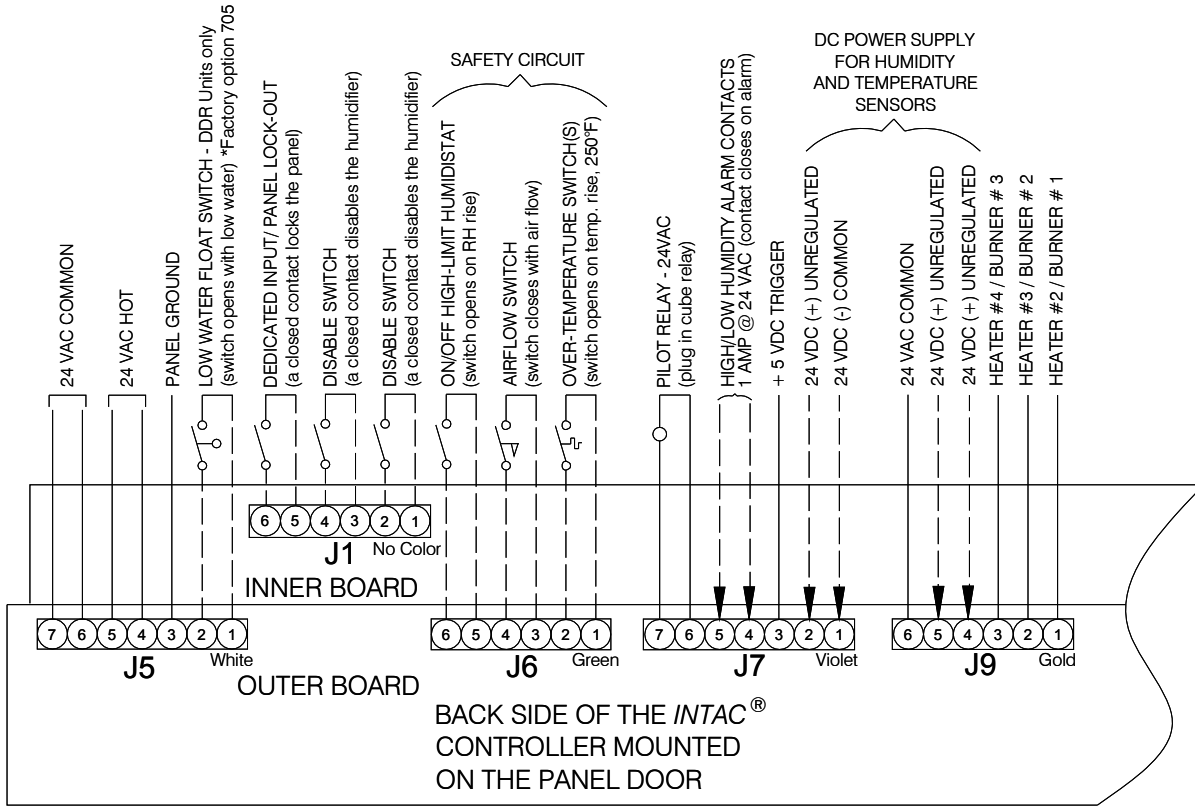
A01 RH Alarm-Low RH

The actual RH is below the limit set in Configuration Menu 103

A01 RH Alarm-High RH

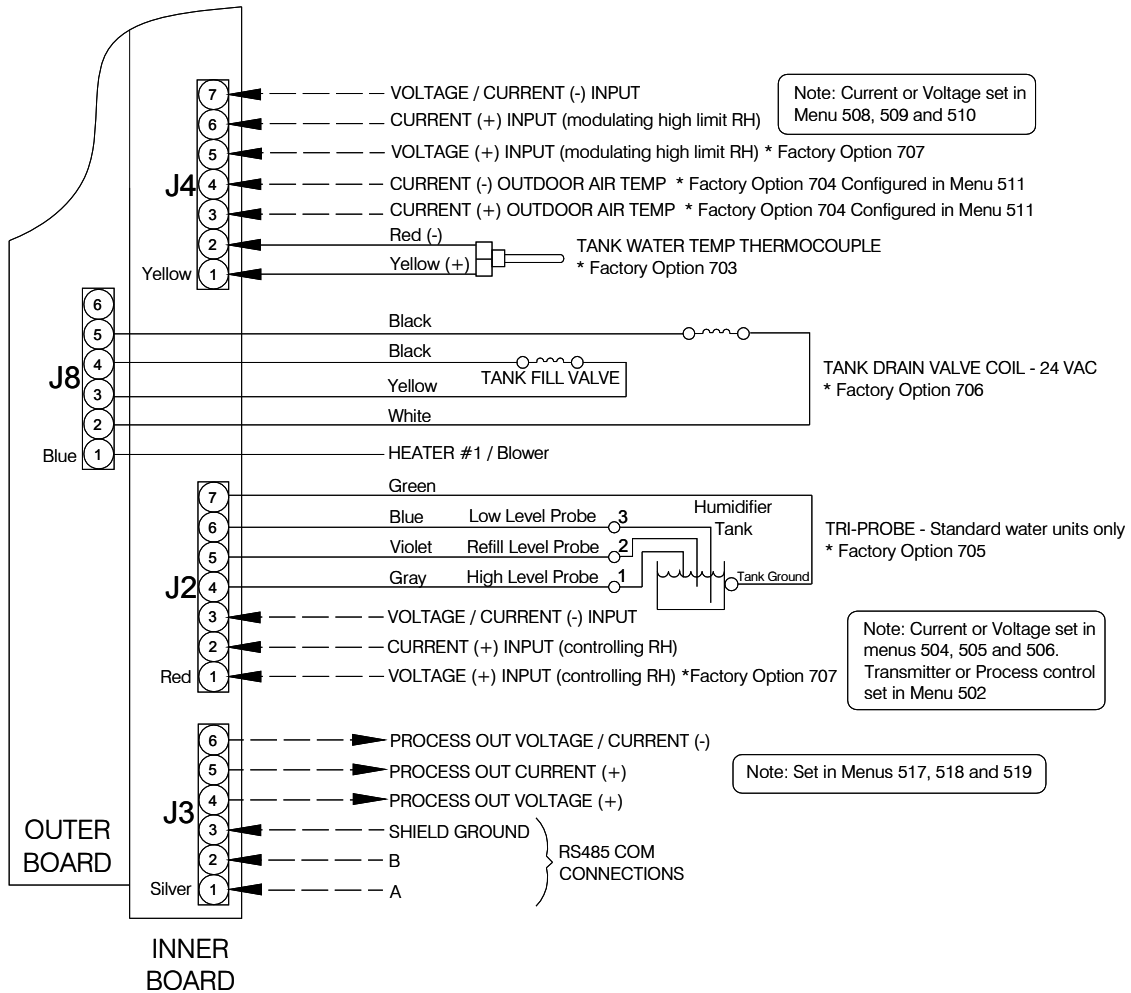
The actual RH is above the limit set in Configuration Menu 104

INTAC[®] TERMINAL BOARD CONNECTIONS

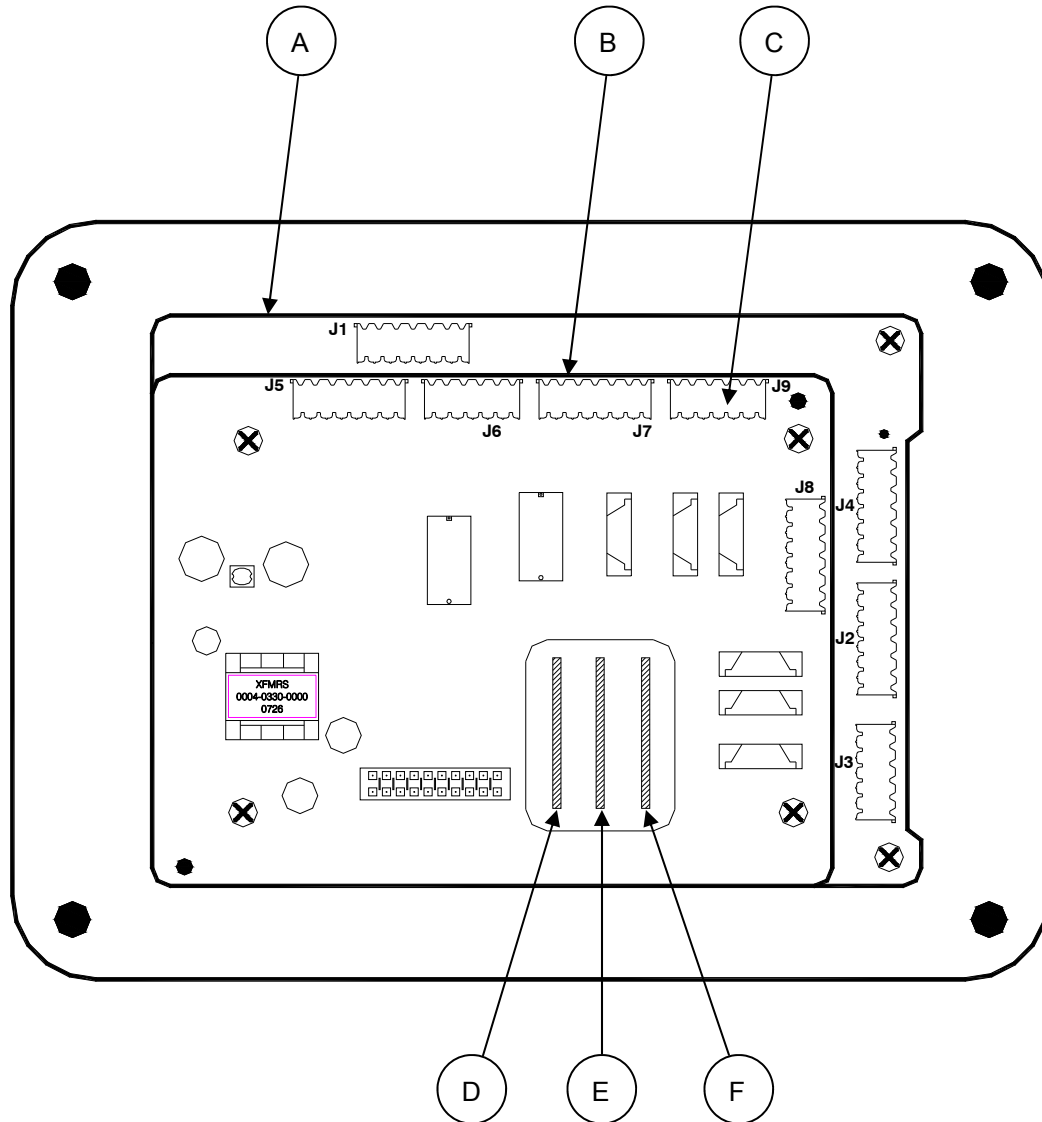


* Factory Option - This is a fixed value and can not be field modified. Factory set option only.

For job specific wiring diagram please reference the materials packet or control panel shipped with the equipment.



INTAC[®] HARDWARE LAYOUT (HC MODEL SHOWN)



KEY	
A	Inner Circuit Board
B	Outer Circuit Board
C	Terminal Strips
D	DCLMB - Dual Control Loop Module B
E	WLCM - Water Level Control Module
F	DCLMA - Dual Control Loop Module A



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