

"Read and Save These Instructions"

# **INTAC**<sup>®</sup> Microprocessor Humidifier Controller

## Installation Instructions

# **Operation and Maintenance Manual**



Our results are comforting

Form No: INOM-03-05

# TABLE OF CONTENTS

PAGE

1	INTAC <sup>®</sup> KEYPAD FEATURES
2	INTAC <sup>®</sup> MENU OVERVIEW - HOW TO NAVIGATE
3-6	INTAC <sup>®</sup> MENUS-HOW TO NAVIGATE-HOME DISPLAY
7-11	INTAC <sup>®</sup> COMPLETE MENU LISTING
12	INTAC <sup>®</sup> MENU 400 COMMUNICATIONS SETUP
13-14	INTAC <sup>®</sup> OUTDOOR AIR TEMPERATURE SETBACK
15-17	INTAC <sup>®</sup> ERROR CODE SUMMARY
18	INTAC <sup>®</sup> TERMINAL BOARD CONNECTIONS
19	INTAC <sup>®</sup> HARDWARE CONFIGURATION SCHEDULE
20	BELIMO NVF ACTUATOR- 4-20mA-BMS INPUT
21	BELIMO NVF ACTUATORS- 4-20mA-BMS INPUT
22	BELIMO NVF ACTUATOR- 4-20mA-SENSOR INPUT
23	BELIMO NVF ACTUATORS- 4-20mA-SENSOR INPUT
24	BELIMO NVF ACTUATOR- VAV 4-20mA-SENSOR INPUT
25	BELIMO NVF ACTUATOR- 0-10 VDC-BMS INPUT
26	BELIMO NVF ACTUATORS- 0-10 VDC-BMS INPUT
27	BELIMO NVF ACTUATOR- 0-10 VDC-SENSOR INPUT
28	CONFIGURATION WORKSHEET

# INTAC<sup>®</sup> Features



#### 100, 200, 300, & 400 KEYS ARE USED TO ACCESS CORRESPONDING MENU

The Home Display is accessed by depressing the 200 & 300 keys simultaneously (Home=Home Display)

# **INTAC<sup>®</sup>** Menus Overview

#### HOW TO NAVIGATE:

Press display	and y at any time.		simultaneously to exit any menu and reach the home
Press screen	or s.		to move up or down through the home display or menu
To acc three (3	ess a menu, p 3) seconds.  T	oress ar Fo acces	nd hold the corresponding numbered menu key for ss the 500 Menu, press and hold the
HELP	and	simulta	neously for three (3) seconds.
Press	ENTER to ac	ctivate a	a menu prompt. The prompt will begin to blink.
Press	or		to select a prompt value.
Press	ENTER to en	nter a pr	rompt value.
Notes	5:		
> Me	- enus can only be exit any menu a	e accesse nd reach	ed from the home display. Press and simultaneously
> On	-Screen "Help"	can be a	ccessed by pressing the HELP key.
> Yo	u must exit "Hel	p" before	e accessing a menu. Exit "Help" by pressing the HELP key.
> If [	ENTER is not pre	essed afte	er editing a prompt, the value will self-enter after 30 seconds.

The controller will revert back to the home display after 60 seconds if no key is pressed.



## **HOME DISPLAY**





#### <u>MENU 100</u>

PRESS AND HOLD FOR 3 SECONDS UNTIL MENU APPEARS

MENU 100-RELATIVE HUMIDITY SET POINT PROMPTS

#### **MENU 200**

PRESS AND HOLD FOR 3 SECONDS UNTIL MENU APPEARS

MENU 200-HUMIDIFIER OPERATION 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.



#### <u>MENU 300</u>

PRESS AND HOLD FOR 3 SECONDS UNTIL MENU APPEARS

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

#### **MENU 400**

PRESS AND HOLD FOR 3 SECONDS UNTIL MENU APPEARS

MENU 400-COMMUNICATIONS PROMPT

#### 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-HUMIDIFIER SET-UP PROMPTS





number. Prompts shown are examples only and may not represent your control settings.

## INTAC® CONFIGURATION CODES COMPLETE LISTING

INTAC <sup>®</sup> CODE	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION
101	RH Setpoint	RANGE: 0% to 100% RH	45%	Area humidification setpoint
103	RH Lo Alarm	RANGE: -100% to -1% RH	-5%	Low humidity alarm activates when actual RH is below setpoint
			1	
104	RH Hi Alarm	RANGE: 1% to 100% RH	5%	High humidity alarm activates when actual RH is above setpoint
201	Operation Mode	Normal	х	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	96	Time between Auto-drain cycles in hours of operation
			-	
204	Cool Down Delay	RANGE: 1 to 150 Seconds	150	While in Fill cycle, time (in seconds) before Auto-drain cycle
				begins
205	Cool Down Temp	RANGE: 80° to 212°E		The water temperature must be at or below before drain valve will
				open
		RANGE: 27° to 100° C		The water temperature must be at or below before drain valve will
				opon
206	Fill Delay	RANGE: 0 to 15 Seconds	5	Water overfill time delay to cause overflow
			-	
207	Water Setpoint	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
			1	
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
				The second
211	Clean Reset	Off	х	Time to clean timer is accumulating run time
		On		I me to clean timer has been reset to zero
			050	
301	Room Prop Band	RANGE: 0% to 100% RH	25%	Main RH control parameter
	Decision		F 00	Main Dill control community
303	Room Integral	KANGE: 0.00 to 99.99	5.00	main KH control parameter

INTAC™ CODE	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION
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 99.99	0.00	Hi-Limit RH control parameter
309	Duct Derivative	RANGE: 0.00 to 9.99	0.00	Hi-Limit RH control parameter
310	Autotune	No Autotune	х	Autotune function turned OFF
		Tune Duct		Autotune function turned ON for Hi limit RH controller
		Tune Room		Autotune function turned ON for Main RH controller
401	INTAC <sup>®</sup> Network	Off	х	No communications to remotes or drones
		On		Communications turned ON for remotes and drones (cycle power)
402	INTAC <sup>®</sup> Address	RANGE: 1 to 30	30	$INTAC^{\circledast}$ Drone Address. (Drone addresses must be different if on same net)
403	INTAC <sup>®</sup> Baudrate	19200	x	Shown baudrate is selected (All units on same network must have same)
		9600		Shown baudrate is selected (All units on same network must have same)
404	Owner Address	RANGE: 1 to 31	31	Master is <i>always</i> 31. Set remote to 31 for Master Communication
				1
501	Unit Type	Master	х	Master controller receives RH signal from transmitter or building management
		Drone		Slave controller receives RH signal ONLY from its Master controller
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	KTC		Standard type K thermocouple used in all applications
		JTC	x	Type J thermocouple (Note: special INTAC $^{\ensuremath{\mathbb{R}}}$ wiring harness required)
		None		No water sensor input available
		ттс		Type thermocouple (Note: special $INTAC^{\ensuremath{\mathbb{B}}}$ wiring harness required)

INTAC <sup>®</sup> CODE	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION
504	RH Sensor	mA DC	х	Controlling RH sensor—Modulating current input
<u></u>		VDC		Controlling RH sensor—Modulating voltage input
505	RH Process Lo	RANGE: 0.0 to 8.0 mA	4.0	Controlling RH sensor—Low range in mA
		RANGE: 0.00 to 3.0 VDC	0.0	Controlling RH sensor—Low range in VDC
506	RH Process Hi	RANGE: 10.0 to 20.0 mA	20.0	Controlling RH sensor—High range in mA
		RANGE: 3.0 to 10.0 VDC	10.0	Controlling RH sensor—High range in VDC
508	Hi-Limit Sensor	None		No High Limit input available (set with menu 707)
		mA DC	x	High Limit RH sensor—Modulating current input (mA DC)
		VDC		High Limit RH sensor—Modulating voltage input (VDC)
509	HL Process Lo	RANGE:0.0 to 8.0 mA	4.0	High Limit RH sensor—Low range in mA
		RANGE: 0.0 to 3.0 VDC	0.0	High Limit RH sensor—Low range in VDC
510	HL Process Hi	RANGE: 10.0 to 20.0 mA	20.0	High Limit RH sensor—High range in mA
		RANGE: 3.0 to 10.0 VDC	10.0	High Limit RH sensor—High range in VDC
				1
511	Air Sensor	None	x	No air temperature sensor input available (set with menu 704)
		T TC		Type T thermocouple (Note: special INTAC <sup>®</sup> wiring harness required)
		К ТС		Standard type K thermocouple used in all applications
		J TC		Type J thermocouple (Note: special INTAC <sup>®</sup> wiring harness required)
		100 Ohm JIS RTD		100 Ohm resistance bulb sensor type JIS RTD
		100 Ohm DIN RTD		100 Ohm resistance bulb sensor type DIN RTD
		mA DC		Current input for outside air temperature sensor
		VDC		Voltage input for outside air temperature sensor
512	Air Process Lo	RANGE: 0.0 to 8.0 mA	4.0	Outside air—Low range in mA
		RANGE: 0.0 to 3.0 VDC	0.0	Outside air—Low range in VDC
513	Air Process Hi	RANGE: 10.0 to 20.0 mA	20.0	Outside air—Low range in mA
		RANGE: 3.0 to 10.0 VCD	10.0	Outside air—Low range in VDC
				<u>.</u>
514	Air Range Lo	RANGE:-999° to +999°C	0.0	Low range scale for outside air temperature sensor in °C
		RANGE:-999° TO +999°F	32	Low range scale for outside air temperature sensor in °F
515	Air Range Hi	RANGE:-999° to +999°C	93	High range scale for outside air temperature sensor in °C
		RANGE:-999° TO +999°F	199	High range scale for outside air temperature sensor in °F

INTAC <sup>®</sup> CODE	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION
516	Air Offset	RANGE : 0° to +60°F		Offset to calibrate temperature sensor to outside air temp in degrees Fahrenheit
<u> </u>		RANGE: 0° to +33°C	0	Offset to calibrate temperature sensor to outside air temp in degrees Celsius
517	Process Output	mA DC	x	Output signal (mA DC) for device or actuator—INTAC <sup>®</sup> terminals 33-34
		VDC		Output signal (VDC) for device or actuator—INTAC <sup>®</sup> Terminals 33-34
518	Out Process Lo	RANGE:0.0 to 8.0 mA	4.0	Process output signal—Low range in mA
		RANGE: 0.0 to 3.0 VDC	0.0	Process output signal—Low range in VDC
519	Out Process Hi	RANGE: 10.0 to 20.0 mA	20.0	Process output signal—High range in mA
· · · · · ·		RANGE: 3.0 to 10.0 VDC	10.0	Process output signal—High range in VDC
520	Dedicated Input	Not Used	x	Dedicated input turned off
		Dedicated Event		INTAC <sup>®</sup> terminals 29-30 OPEN; humidifier output shuts off
		Panel Lockout		INTAC <sup>®</sup> terminals 29-30 <i>CLOSED</i> ; all menus LOCKED including menu 520
521	Temp Units	°F	x	All temperatures in all screens and menus are in °F
		°C		All temperatures in all screens and menus are in °C
522	Capacity Units	Lbs/Hr	х	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 4000	40	Unit capacity in Lbs/Hr
		RANGE: 2 to 8000	80	Unit capacity in Kgs/Hr
				·
524	System Capacity	RANGE: 10 to 100K	40	Total system capacity (master plus all drones) in Lbs/Hr
		RANGE: 10 to 200K	80	Total system capacity (master plus all drones) in Kgs/Hr
525	Menu Access	All Menus	x	No menus are blocked from changing configurations
· · · · ·		100 & 200 Menus		All menus VIEW ONLY except menus 100, 200, and 500
		100 Menu		All menus VIEW ONLY except menus 100 and 500
		No Menus		All menus VIEW ONLY except menu 500
701	Control Type	SCR		Solid state relay output offers the best modulating control
(Factory o	ption only)	ON/OFF	х	Non-modulating, 100% output when RH is below controller setpoint
		ТСМ		Time Cycle Modulation—modulates contactors for good RH control
		Steam		Modulating VDC or mA DC output signal to operate valve actuator

INTAC <sup>®</sup> CODE	DISPLAY	OPTIONS	MFG DEFAULT	DESCRIPTION
702	Active Heaters	1		One active heater contactor
(Factory	option only)	2		Two active heater contactors
		3		Three active heater contactors
		4	х	Four active heater contactors
703	Water Enable	OFF	х	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	х	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	х	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	Auto		Humidifier tank drains automatically per menu 202 & 203 configurations
(Factory	option only)	Manual	х	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

707	Hi-Limit Enable	OFF	х	Modulating Hi-Limit sensor input OFF
(Factory option only)		ON		Modulating Hi-Limit sensor input ON (INTAC <sup>®</sup> terminals 47,

### COMMUNICATIONS MENU 400 FOR MASTER, DRONES, AND REMOTE INTAC<sup>®</sup> CONTROLLERS

### Menu 401: INTAC<sup>®</sup> Network (ON or OFF)

To Turn ON Communications between INTAC<sup>®</sup> Controllers:

- >Press and HOLD the 400 key until 401 appears in the screen (approximately 3 seconds).
- >Press ENTER key once or until the prompt begins to flash.
- >Press the UP or DOWN arrows until the screen indicates "ON".
- >Press ENTER key once or until the prompt stops flashing.
- >Cycle the power ON and OFF once to start communications (need not be repeated).
- >Initial communications may require a few minutes, then will update once per second.
- >To turn communications OFF, reverse the above process.

#### Menu 402: INTAC<sup>®</sup> Address (Range 1 to 30)

<u>INTAC<sup>®</sup> Address</u> pertains only to INTAC<sup>®</sup> Controllers set up as drones. If more than one drone is used in the same INTAC<sup>®</sup> network, each drone must have a <u>different</u> address. Up to 30 drones can be used in one network.

#### Menu 403 INTAC<sup>®</sup> Baudrate (9,600 to 19,200)

Factory set at 19,200. Slower baudrate may be desirable if extremely long communication runs are made and communication problems exist. Note: All controllers on the same INTAC<sup>®</sup> Network must be set to the <u>same</u> baudrate.

#### Menu 404 Owner Address (Range 1 to 31)

Owner Range pertains only to INTAC<sup>®</sup> Remote Controllers. If it is to be used in conjunction with a master controller, then its address must be set to 31. All master controllers have a fixed owner address of 31 (cannot be changed).

If a number other than 31 is placed in this field, the REMOTE will be looking for a DRONE controller with the similar number.

#### Menu 405 N2 Address (Range 1 to 255)

INTAC<sup>®</sup> Communications to Johnson Controls N2 Metasys Protocol. Used to address to outside communications such as Building Management Systems.

## INTAC<sup>®</sup> 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° to 92°F.

#### HOW TO BEGIN:

First, determine what type of air temperature sensor you have—Voltage, Current, Thermocouple, or RTD—as this will determine INTAC<sup>®</sup> hardware configuration. Locate the 2-Position DIP switch on the backside of the INTAC<sup>®</sup> controller (near the 15 point cable connector), and set it as follows:



<u>Next</u>, 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  $-30^{\circ}$ F to  $+130^{\circ}$ 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<sup>®</sup> 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<sup>®</sup> ERROR CODE SUMMARY

#### E01 Safety Loop Circuit Open

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

Terminals 11 & 12 High Limit Humidistat Terminals 13 & 14 Air Flow Switch Terminals 15 & 16 Over-Temp Switch

Continuity MUST exist across these terminals to clear alarm

#### E02 Dedicated Event Circuit Open

An open circuit exists in the Dedicated Event Circuit. Check the following: Terminals 29 & 30 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 43 = Voltage (+) Input Terminal 44 = Voltage (-) / Current (-) Input Terminal 45 = 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 43 = Voltage (+) Input Terminal 44 = Voltage (-) / Current (-) Input Terminal 45 = Current (+) Input

#### E03 Control RH A/D Underflow-A/D Overflow

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

Terminal 43 = Voltage (+) Input Terminal 44 = Voltage (-) / Current (-) Input Terminal 45 = Current (+) Input

#### E04 High Limit 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 46 = Voltage (+) Input Terminal 47 = Voltage (-) / Current (-) Input Terminal 48 = Current (+) Input

#### E04 High Limit A/D Underflow

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

Terminal 46 = Voltage (+) Input Terminal 47 = Voltage (-) / Current (-) Input Terminal 48 = Current (+) Input

#### E05 Outdoor Air A/D Underflow

Air temperature sensor circuit open. Check for correct polarity. If using thermocouple, RED wire must connect to terminal #50 (common). Check hardware configuration for type of sensor used (refer to Hardware Configuration Schedule). Check signal at the input terminals:

Terminal 49 = Voltage (+), TC (+) or RTDs2 Common Input Terminal 50 = Voltage (-), TC (-) Current (-) or RTDs3 Common Input Terminal 51 = Current (+) Input Terminal 52 = RTDs1 Input (Configuration Menu 511 turns this feature OFF, Select NONE)

#### E06 Water Temp A/D Underflow

Water temperature sensor circuit open. Check for correct polarity. Thermocouple RED wire (-) must connect to terminal #42 (negative). Check signal at the input terminals:

Terminal 41 (+) Thermocouple Yellow Wire Terminal 42 (-) Thermocouple Red Wire

Note: to check operation, a temporary jumper installed across terminals 41 & 42 should clear Error E06. Warning: This defeats the water temperature measuring feature, and only ambient air temp will be indicated.

#### E07 Water Level-Low Float

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

Terminals 9 & 10 Float Switch

#### E07 Water Level-Bad Tri-Probe

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

Terminal 5 = Short Probe (Gray Wire) Terminal 6 = Medium Probe (Violet Wire) Terminal 7 = Long Probe (Blue Wire) Terminal 8 = Tank Ground (Green Wire)

Note: To check operation, <u>temporarily</u> install three (3) jumpers across terminals 5,6,7, and 8. This should clear Error Code E07. <u>WARNING</u>: 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 8.

#### E07 Water Level-Refill Timeout

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

Terminal 5 = Short Probe (Gray Wire) Terminal 6 = Medium Probe (Violet Wire) Terminal 7 = Long Probe (Blue Wire) Terminal 8 = Tank Ground (Green Wire)

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  $INTAC^{\text{®}}$  Controller.

#### E07 Water Level-Plugged Drain

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

#### 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





















## **Configuration Number**

	<u>c</u>
Unit Type (Monu E01)	
7-Master	
8-Drope	
0-Pomoto Unit*	
Active Hesters* (Menu 702)	
0-Steam Unit*	
1-One Heater*	
2–Two Heaters*	
3-Three Heaters*	
4=Four Heaters*	
Control Type* (Menu 701)	
R=On/Off Control*	
S=SCR Modulation*	
T=TCM (Time Cvcle Modulation)*	
U=Steam Unit*	
Control Source (Menu 502)	
L=Transmitter (Local)	
M=Process Signal (Building Automation,	
BAS)	
RH Sensor-Controlling (Menu 504)	
1=On/Off (Digital)	
2=Current (4-20mA DC, 0-20mA DC)	
3=Volts (1-5VDC, 0-10VDC)	
Water Sensor-Temperature (Menu 503)	
A=Not Available*	
B=Type "K", "T",, or "J" Thermocouple	
Air Sensor-Outside Temperature (Menu 511) —	
A=Not Available*	
B=Type "K", "T", or "J" Thermocouple,	
RTD, Voltage or Current	
Hi-Limit Sensor (Menu 508)	
A=Not Available*	
G=Current (4-20mA DC, 0-20mA DC)	
H=Volts (1-5VDC, 0-10VDC)	
Level Sensor" (Menu 508)	
D=FIDAL 6-Nono*	
Dedicated Input (Menu 520)	
1-Dedicated Event (Digital Input)	
2-Panel Lock-Out (Digital Input)	
3-Not Used	
Process Output (Menu 517)	
A=Not Available*	
G=Current (4-20mA DC, 0-20mA DC)	
H=Volts (1-5VDC, 0-10VDC)	
Drain Type* (Menu 706)	
J=Auto*	
K=Manual*	
L=None*	

\*Factory Selected Option—This is a fixed value and cannot be field modified. Configuration values without an asterisk are field selectable.



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