E055-71520325
E055-71520330

2 or 4 pipe systems

7-Day Programmable Fan Coil Thermostat

Wi Fi

- *Wi-Fi Enabled*
- *Mobile app and website for easy remote control*
- *Switchable, non-programmable or 7 day programmable*
- *2 or 4 pipe configurable, 3 speed fan control*
- *Retrofit wall plate included*
- *Auto-Changeover*
- *Dry contact for condensate overflow or occupancy sensors*
- *Dehumidification option*
- *Setpoint Limiting and/or total keypad lockout*
- *Override capable*
- *Pre-occupancy fan purge*
- *CA Title 24 Compliant*
- *OpenADR 2.0b Certified*

IEC International Environmental

Owner's Manual & Installation Instructions

CAUTION

Follow the Installation Instructions before proceeding. Set the thermostat mode to “OFF” prior to changing settings in setup or restoring Factory Defaults.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that of the receiver.
- Consult the dealer or an experienced radio or TV technician for help.

Notice: Only peripherals complying with FCC limits may be attached to this equipment. Operation with noncompliant peripherals or peripherals not recommended by IEC, is likely to result in interference to radio and TV reception. Changes or modifications to the product, not expressly approved by IEC could void the user's authority to operate the equipment.

FCC - INDOOR Mobile Radio Information:

To comply with FCC/IC RF exposure limits for general population / uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This Device complies with Industry Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Cet appareil est conforme avec Industrie Canada, exempts de licence standard RSS(s). Son fonctionnement est soumis aux deux conditions suivantes: 1) ce dispositif ne doit pas causer d'interférences, et 2) ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

En vertu des règlements d'Industrie Canada, cet émetteur de radio ne peut fonctionner en utilisant une antenne d'un type et maximale (ou moins) Gain approuvé pour l'émetteur par Industrie Canada. Pour réduire les interférences radio potentielles aux autres utilisateurs, le type d'antenne et son gain doivent être choisis afin que la puissance isotrope rayonnée équivalente (PIRE) ne est pas plus de ce qui est nécessaire pour une communication réussie.

We, IEC, declare under our sole responsibility that the device to which this declaration relates: Complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID: MUH-SKYPORT10

IC: 12547A-SKYPORT10

This thermostat has the ability to receive updates to its firmware. Periodically firmware updates are released by the manufacturer to add features and/or performance enhancements. This manual was produced reflecting the most current firmware/feature set at the time of publication, firmware rev. 1.0. Firmware releases after rev. 1.0 may not be adequately depicted in this manual. Please refer to the appropriate website or contact your place of purchase to learn about changes to the thermostat after firmware release 1.0.

c UL us LISTED 4Z95

Wi Fi

Innovation, Science and Economic Development Canada ICES-003 Compliance Label: CAN ICES-3 (B)/NM8-3(B)

Table of Contents

IMPORTANT

Follow Installation Instructions carefully. Disconnect Power to the fancoil before removing the old thermostat and installing the new thermostat. It is the responsibility of the end user to properly characterize and dispose of all waste materials according to applicable regulatory and legal entities. Where reasonable, safe, and compliant with local regulatory and legal requirements, IEC encourages recyling materials when disposing of its products.

Glossary of Terms

Auto-Changeover: A mode in which the thermostat will turn on the heating or cooling based on room temperature demand.

Cool Setpoint: The warmest temperature that the space should rise to before cooling is turned on (without regard to deadband).

Deadband: The number of degrees the thermostat will wait, once a setpoint has been reached, before energizing heating or cooling.

Differential: The forced temperature difference between the heat setpoint and the cool setpoint.

Heat Setpoint: The coolest temperature that the space should drop to before heating is turned on (without regard to deadband).

Icon: The word or symbol that appears on the thermostat display.

Mode: The current operating condition of the thermostat (i.e. Off, Heat, Cool, Auto, Program On).

Non-Programmable Thermostat: A thermostat that does not have the capability of running Time Period Programming.

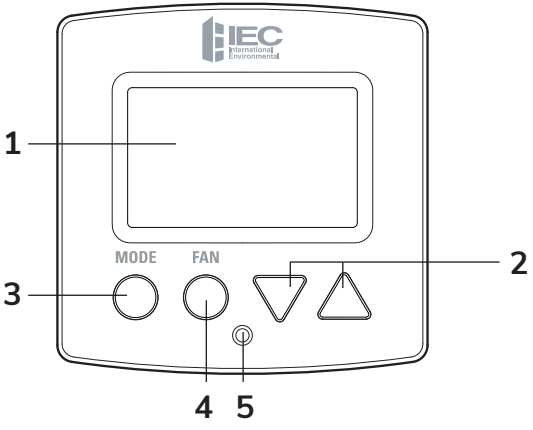
Programmable Thermostat: A thermostat that has the capability of running Time Period Programming.

Pre-Occupancy Purge: Fan operation prior to Occupied 1.

Temperature Swing: Same as Deadband.

Time Period Programming: A program that allows the thermostat to automatically adjust the heat setpoint and/or the cool setpoint based on the time of the day.

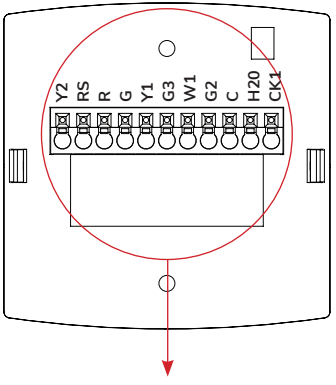
Front Panel

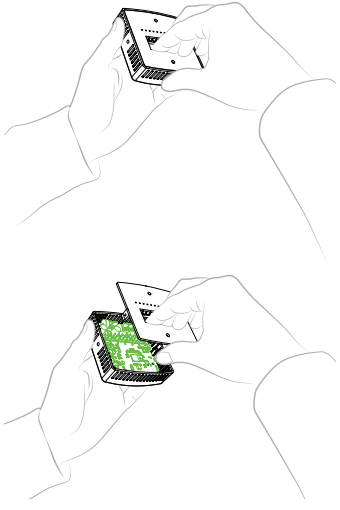


1 Backlit Display
2 Up, Down Buttons
3 Mode Button
4 Fan Button
5 Heat or Cool Indicator
Heat = Red, Cool = Green

The Thermostat Backplate

To remove the thermostat backplate: Gently separate the display from the base by pulling from the center.



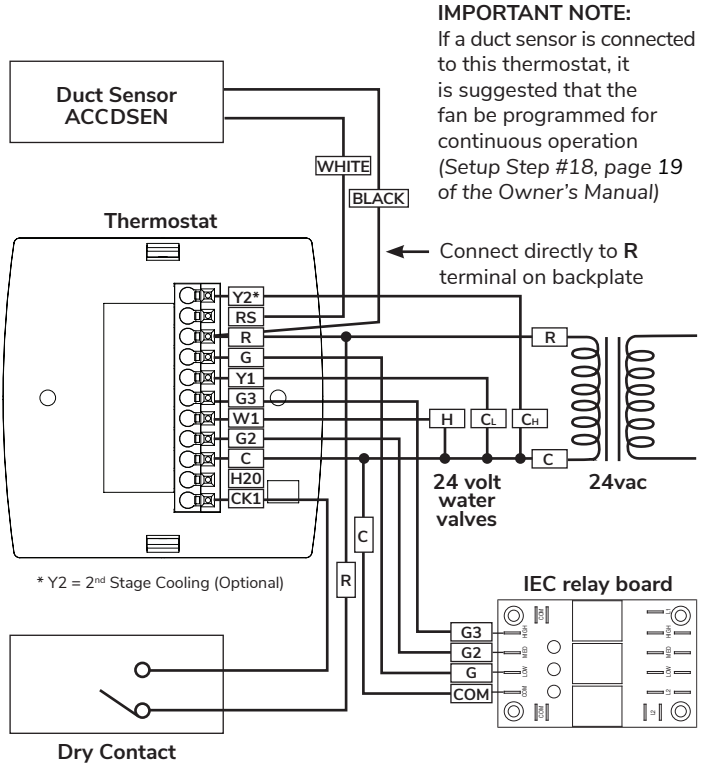


R	24 VAC return
C	24 VAC common
G , G2, G3	low/medium/high fan
Y1	chilled water valve (4 pipe) or hot/chilled water valve (2 pipe)
Y2	2-staged cooling
W1	hot water valve (4 pipe) or strip heat (2 pipe)
H20	2 pipe water temp sensor (open = hot, closed = chilled)
CK1	Dry Contact
RS	wired remote 10K NTC thermistor

IMPORTANT: This thermostat requires both R (24 VAC Power) and C (24 VAC Common) wires be connected to the backplate terminals to operate properly.

Wiring Diagram

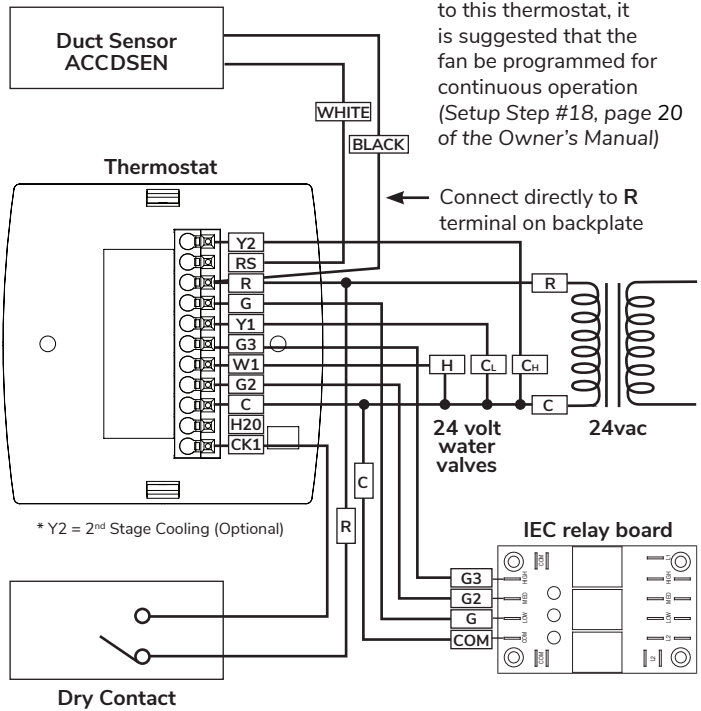
4-Pipe, Low Voltage Valves, Duct Temperature Sensor & Dry Contact



Wiring Diagram

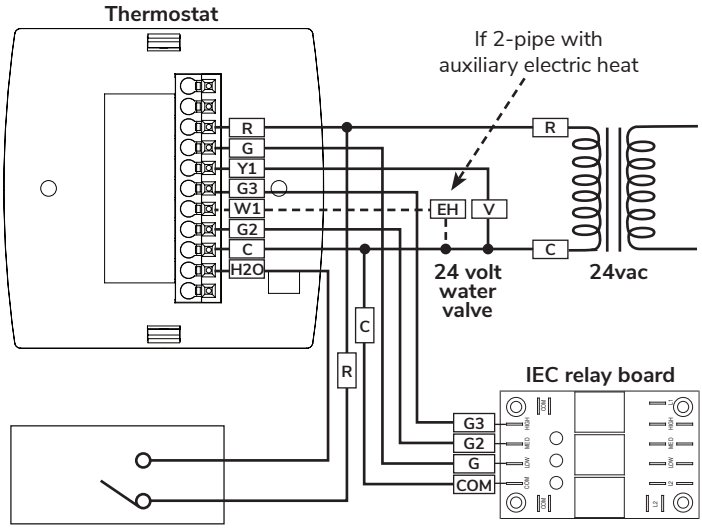
4-Pipe, Low Voltage Valves, Dehumidification Duct, Temperature Sensor and Dry Contact

IMPORTANT NOTE:
If a duct sensor is connected to this thermostat, it is suggested that the fan be programmed for continuous operation *(Setup Step #18, page 20 of the Owner's Manual)*



Wiring Diagram

2-Pipe, Low Voltage Valves, H2O Changeover Sensor



H_20 Changeover Sensor
(G100-71520306)
(closes below 60˚,
opens above 75˚)

Connect to Wi-Fi

Wi-Fi Setup

The IEC Configurator App is needed to configure the Wi-Fi Settings of this thermostat.

- **Download the IEC Configurator App** from your mobile device's App Store.

- **Open the IEC Configurator App**
  - Choose the thermostat by sliding the thermostat pictures at the top of the apps' display to the left until you see a picture of the thermostat.
  - Press and hold the FAN button of the thermostat for approximately 5 seconds to enter Wi-Fi setup screens.
  - Press the DOWN button to setup Wi-Fi.
  - Follow the instructions that appear on the IEC Configurator App.

Connect to Skyport

The steps below illustrate account creation from a browser. To create a Skyport account, a thermostat must be joined to the account.

If the thermostat is connected to the local Wi-Fi Access Point, but you do not have a Skyport account, you may create an account and join the thermostat to the account by doing the following:

1. Open your browser to: http://IEC.skyportcloud.com
2. Select "Create account now"

3. Follow on screen instructions to create an account and add a thermostat to the Skyport account.

Connect to Wi-Fi

Join a Thermostat to Skyport

If the thermostat is connected to the local Wi-Fi access point but not yet joined to an existing Skyport account, you may join the thermostat to the account by doing the following:

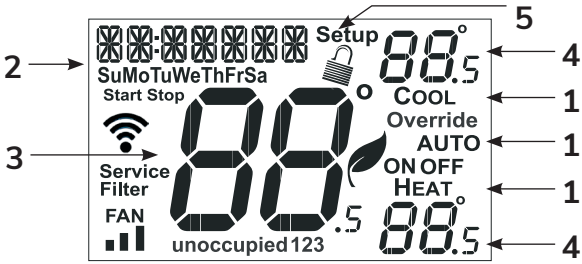
1. Log in to your Skyport account.
2. Select the “Location” you want to add a thermostat into.
3. Select the “Thermostat tab”.
4. Select “+ Add thermostat”. A screen will ‘pop-up’ asking for a six digit code.
5. Press the FAN button on the thermostat for 5 seconds.
6. Press the UP button on the thermostat.
7. A six digit code will appear on the thermostat’s display.
8. Enter the six digit code into your Skyport account.

Wi-Fi Status Screens

Press and hold the FAN button on the thermostat for 5 seconds. When “Wi-Fi Setup” appears on the display, press the MODE button. Pressing the UP or DOWN button will sequence through the following information:

- AP Name
- AP Signal Strength
- IP Address
- MAC Address
- Skyport Status
- API Status

Display Legend



1 **Mode Indicators**
Selects the operational mode of the equipment.
HEAT - Indicates the heating mode.
COOL - Indicates the cooling mode.
AUTO - Indicates the system will automatically changeover between heat and cool modes as the temperature varies.
OFF - Indicates heating and cooling are turned off.

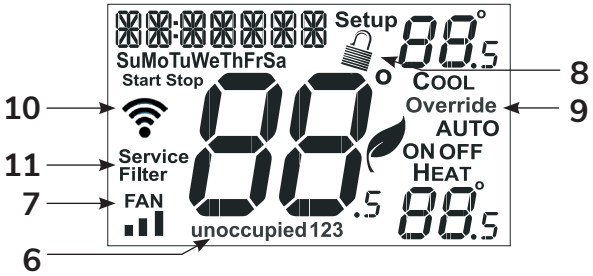
2 **Clock with Day of the Week**
Indicates the current time and day. This clock is also used to program the time period schedules.

3 **Room Temperature Display**
Indicates current room temperature.

4 **Desired Set Temperature**
Indicates desired room temperature(s).

5 **Setup Icon**
Indicates the thermostat is in the setup mode.

Display Legend



6 Occupied and Unoccupied Icons
Indicates the part of the time period program.

7 Fan Icon
When FAN and any fan speed bars is on, the fan is in manual speed. If the FAN is not on the display, then the FAN is in AUTO mode and will run only when necessary to heat or cool.

8 Locked Icon
Indicates the thermostat's control buttons have been locked.

9 Override Icon
Indicates OVERRIDE is enabled.

10 Wi-Fi Symbol Legend

When only the 'dot' of the Wi-Fi symbol appears = not connected to an access point.

When the full Wi-Fi symbol appears = connected to an access point.

When the full Wi-Fi symbol appears and the 'dot' of the symbol is flashing = connected to Skyport.

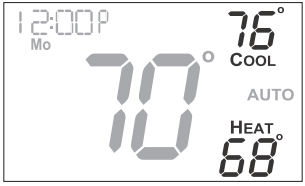
11 Service Filter
Indicates it is time to service your filter.

Basic Operation

Selecting Your Desired Temperature *(adjusting the setpoints)*

Auto-Changeover Mode

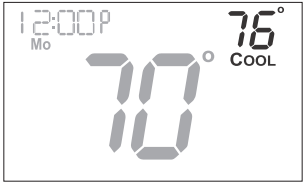
Pressing the UP or DOWN buttons in AUTO mode will adjust both the heat and cool setpoints simultaneously. To adjust the heat and cool setpoints individually, choose HEAT mode to adjust the heat setpoint, and COOL mode to adjust the cool setpoint, then return to AUTO mode.



Adjust the desired set temperature with these buttons

Heat or Cool Mode

Pressing the UP or DOWN buttons in HEAT or COOL mode will adjust only the heat or cool set temperature.



Using the FAN Button

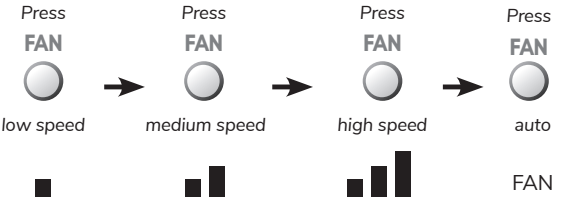
Pressing the FAN button will run the fan in low, medium, or high speed continuously.

If the FAN is not on the display, then the fan is in AUTO mode and will run only when necessary to heat or cool.

NOTE: If the thermostat is placed in the OFF mode, the fan will de-energize.

Basic Operation

Using the FAN button for FAN Operation



Note: When the thermostat is placed in OFF with the MODE button the fan will not operate.

Using the FAN button for OVERRIDE Operation

Note: Override operation may ony be used when the thermostat is running a time period schedule/program.

Unoccupied Operation

During programmed, unoccupied periods pressing and holding the FAN button for more than 5 seconds will force the thermostat into occupied 1 settings for 1 to 4 hours (Setup Step #16, page 19). The OVERRIDE icon will be illuminated during this time.

If you press and hold the FAN button while the thermostat is currently overriding the daily schedule, this will reset the timer, returning the thermostat to the correct time period program for the day.

Occupied Operation

Pressing and holding the FAN button for 5 seconds during a programmed Occupied time period will not function as override but will enter the wifi setup section.

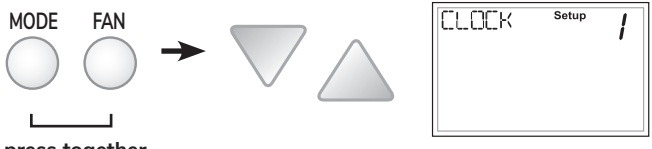
User Setup

Table for button presses that are required for entering various menus

TO ENTER MENUS	BUTTON PRESS
Setup Steps	MODE & FAN for 5 seconds
Time Schedule	MODE & UP for 2 seconds
Emergency Heat	UP & FAN for 2 seconds
Lockout Buttons	MODE, UP & DOWN for 2 seconds
Calibration	MODE & DOWN for 2 seconds, then MODE
Wireless Setup	FAN for 5 seconds unless running time period program

How to Change Settings in the Setup Screens

To enter the setup screens, press the MODE button, and simultaneously press FAN button for 5 seconds. Release the buttons when you see "Setup" on the display. Use the UP or DOWN buttons to adjust the value of your selection. Press MODE to advance to the next setup step. Press MODE and FAN together again to leave the setup screens.



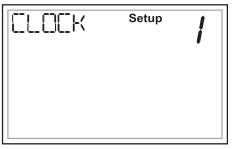
User Setup: Clock

Setting the Clock and Day *(setup steps 1 & 2)*

Note: When your thermostat is connected to Skyport Cloud Services, the time and day of the week are controlled by Skyport. There is no local adjustment, Skyport also adjusts the time for Daylight Savings Time as well. Setup steps 1 and 2 will not appear on thermostat if connected to Skyport.

To set the time and day when not connected to Skyport; enter the setup screens by pressing the MODE button and simultaneously pressing the FAN button for 5 seconds.

Setup step 1 adjusts the clock.
Use the UP and DOWN buttons to adjust the time.



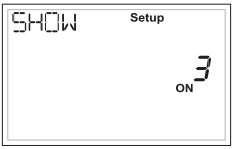
Press the MODE button to advance to **step 2**.

Select the day of the week using the UP and DOWN buttons.

Leave the setup screens by again pressing the MODE button and simultaneously pressing the FAN button for 5 seconds.

Show Clock *(setup step 3)*

This setup step will allow for removal of the clock and day of the week from the display. OFF removes the time and day from the display.



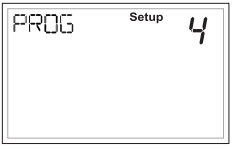
User Setup: Backlight Operation

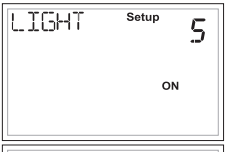
Programmable *(setup step 4)*

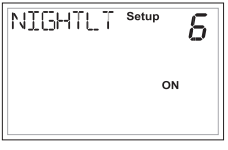
When the very simplest operation is desired, this thermostat may be configured to be non-programmable, with or without Auto-Changeover.

If "OFF" is selected, the thermostat will lockout the Program On screen; only the Off, Heat, Cool and Auto screens may be accessed by pressing the MODE button.

Select "ON" if you would like your thermostat to be programmable, then the PROGRAM mode will be accessible through the use of the MODE button.







Backlight *(setup steps 5-8)*

Backlight *(setup step 5)*

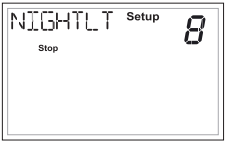
OFF - Backlight turns on only with a button press and turns off after 8 seconds.

ON - Backlight is on continuously.

Night Light *(setup step 6)*
Selecting ON allows for turning off the backlight of the display during specific times of the day, usually at night.

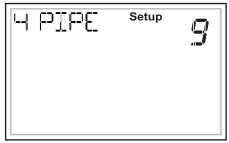
Night Light Start Time *(setup step 7)*
12:00 am to 12:00 am

Night Light Stop Time *(setup step 8)*
12:00 am to 12:00 am



Installer Setup: Pipe Settings

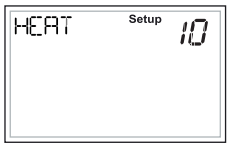
2 or 4 Pipe System *(setup step 9)*



Select Fan Coil System type:

- 2 Pipe Fan Coil System, or
- 4 pipe Fan Coil System.

2 Pipe System Operation *(setup step 10)*



Setup Step 10 only appears if Setup Step 9 = 2 pipe

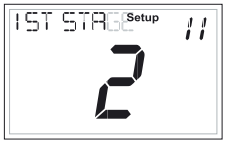
- Heat Only System
- Cool Only System
- Heat/Cool Auto Lockout Aux heat when hot H_20 is available
- Heat/Cool Auto, total electric, no Hot H_20
- Heat/Cool Auto Changeover System

Installer Setup: Deadband

Deadband

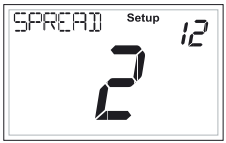
The Deadband is the number of degrees or minutes that the thermostat waits before it initiates the stages of heating or cooling.

1st Stage Deadband *(setup step 11)*



Specifies the temperature difference between the room temperature and the desired setpoint before the first stage of heating or cooling is allowed to turn on. (1 - 6 degrees) For example, if the heat setpoint is 68˚ and the 1st Stage deadband is set to 2 degrees, the room temperature will need to reach 66˚ before the heat turns on. For additional information on deadband, go to page 25.

Minimum Heat/Cool Setpoint Difference *(setup step 12)*

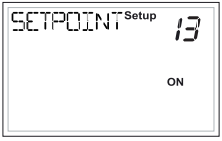


This feature allows the user to set the minimum gap between Heat and Cool setpoints in AUTO mode. Select from 0 to 6 degrees.

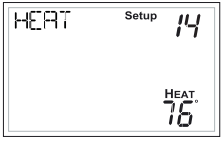
Installer Setup: Setpoint Limits & Lock MODE

Setpoint Limits *(setup step 13)*

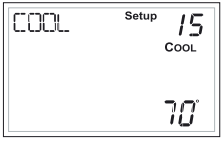
When this feature is set to ON, the Heat and Cool Setpoints may be restricted to preset levels in Setup Steps 14 and 15.



Maximum Heat Setpoint *(setup step 14)*



Minimum Cool Setpoint *(setup step 15)*



Lock MODE Buttons

This feature is available when the thermostat is connected to Skyport Cloud Services and may only be accessed through Skyport.

This security feature is not accessible locally at the thermostat.

When this setting is enabled; pressing the MODE button on the thermostat will have no effect.

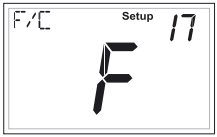
This feature is often used in conjunction with setpoint limits.

Maximum Override Time *(setup step 16)*

This feature limits the maximum override time when using the OVERRIDE button 1 - 4 hours.

Fahrenheit or Celsius *(setup step 17)*

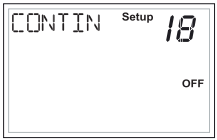
This feature allows the thermostat to display temperature in Fahrenheit or Celsius.



Fan Auto Operation *(setup step 18)*

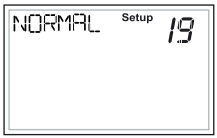
- ON = Continuous low speed fan
- OFF = Only energize with a heating or cooling cycle

  This step is useful when using a duct sensor to keep airflow for the sensor.



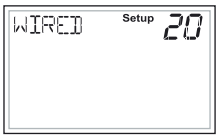
Fan Relay Type *(setup step 19)*

- NORMAL = Conventional 3 speed fan coil system
- SPECIAL = IEC Fan Coil using E025-71481103/4 Relay Board

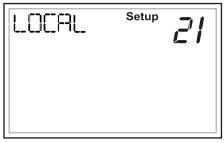


Wired Sensor Type *(setup step 20)*

- RETURN, OUTDOOR, SUPPLY = the sensor temperature is reported to Skyport to monitor only
- REMOTE = the sensor can be used for temperature control



Control to Sensor *(setup step 21)*



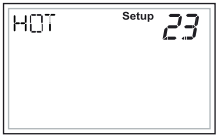
Select LOCAL to control the thermostat temperature with the internal sensor.

Select REMOTE to control the temperature with a remote sensor connected to the RS & R terminals of the thermostat backplate.

Pre-Occupancy Fan Purge *(setup step 22)*

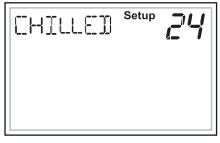
When this feature is activated, the fan will turn on during an unoccupied period at a preset amount of time prior to Occupied 1. This preoccupancy fan purge timer may be set from zero to three hours, in 15 minute increments. Zero (0) means this feature is turned off.

Hot Water Valve Type *(setup step 23)*



- NORMAL CLOSED = Default setting, hot water valve does not allow water flow when unpowered
- NORMAL OPEN = Hot water valve allows water flow when unpowered

Chilled Water Valve Type *(setup step 24)*



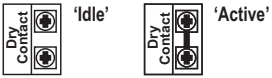
- NORMAL CLOSED = Default setting, chilled water valve does not allow water flow when unpowered.
- NORMAL OPEN = Chilled water valve allows waterflow when unpowered.

These steps configure the type of water valve(s) connected to the thermostat. A normally closed valve allows no water flow when no power is applied to it. A normally open valve allows water flow when no power is applied to it. Some 4 pipe fancoils use a normally closed chilled water valve with a normally open hot water valve. If you have a two pipe fancoil, the setting in Setup Step 24 for CHILLED WATER VALVE will apply to the single valve in use.

Installer Setup: Dry Contact Operation

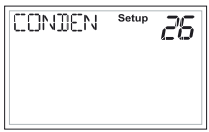
Dry Contact Polarity *(setup step 25)*

Open (Normally Open) - The dry contact is open until the connected device closes the circuit.



Closed (Normally Closed) - The dry contact is closed until the connected device opens the circuit.

Dry Contact Use *(setup step 26)*



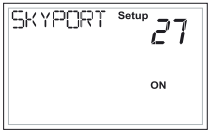
Condensate Pan - If selected when the Dry Contact is active, the thermostat will lockout compressor terminal(s) and "CONDENSATE PAN" will appear on the display.

Holiday - If Holiday is selected when the dry contact is active, the thermostat will be forced into HOLIDAY/ Unoccupied settings.

Occupied - If Occupied is selected when the dry contact is active, the thermostat will be forced into occupied settings.

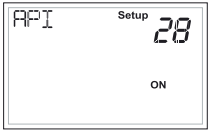
Skyport Cloud Services *(setup step 27)*

If set to ON, the thermostat may communicate and receive data from the Skyport Cloud Services.



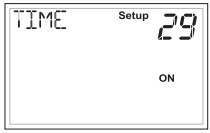
Local API *(setup step 28)*

Turning on the local API allows 3rd party software to interface with the thermostat such as a home automation system.



Time API *(setup step 29)*

Only appears when prior step for Local API is set to ON. This step allows the internal clock to be altered using the API.



NOTE: It is permissable to enable both Skyport and the local API at the same time.

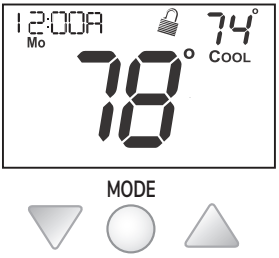
To complete and exit out of setup mode, press and hold the MODE and FAN buttons simultaneously for 5 seconds.

Locking/Unlocking the Keypad

To prevent unauthorized use of the thermostat, the front panel buttons may be disabled. To disable, or 'lock' the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together, for two seconds.

The icon will appear on the display, then release the buttons.

Press all three buttons in the order outlined for keypad lockout



To unlock the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together, for two seconds.

The icon will disappear from the display, then release the buttons.

Programming a Daily Schedule

To enter Time Period Programming screens, Press and hold MODE and UP until the scrolling prompt appears. Press MODE to continue to next step.

Select the number of Occupied time periods – Press the UP or DOWN buttons to choose the maximum number (up to 3 maximum) of Occupied time periods in a day.

Select the Mode for the Occupied period – Press the UP or DOWN buttons to choose the mode for the occupied period. The choices are: Off, Heat only, Cool only and AUTO changeover.

Adjust the Occupied Cool Setpoint – Press the UP or DOWN buttons to adjust the Cooling setpoint for comfort.

Adjust the Occupied Heat Setpoint – Press the UP or DOWN buttons to adjust the Heating setpoint for comfort.

Set the Unoccupied Mode – Press the UP or DOWN buttons to choose the mode for the Unoccupied period. The thermostat is in Unoccupied when the Time Period Schedule is running and there is not an active Occupied period. The choices are: Off, Heat only, Cool only and AUTO changeover.

Adjust the Unoccupied Cool Setpoint – Press the UP or DOWN buttons to adjust the Cooling setpoint for times when the thermostat is in Unoccupied.

(Continued)

Programming a Daily Schedule

(Continued)

Adjust the Unoccupied Heat Setpoint – Press the UP or DOWN button to adjust the Heating setpoint for times when the thermostat is in Unoccupied.

The following steps determine when the Occupied period(s) will be active.

Enable Occupied 1 – Press the UP or DOWN button to enable (On) or to disable (Off) Occupied 1 on Monday.

Adjust the Start Time for Occupied 1 – Press the UP or DOWN button to adjust the start time for Occupied 1 on Monday.

Upon pressing MODE after the above step; you will be prompted to Save and Exit or Copy this Occupied schedule to another day.

> **To save and exit** – Press the MODE and UP button.
>
> **To Copy Monday's settings/schedule to Tuesday** – Press Up and then MODE. Press MODE again to copy the Monday Settings/ schedule to subsequent days.
>
> **To Program Another Day** – Press MODE and then press the UP/ DOWN button to select the day to program. Repeat the above steps for each day you would like to program.

Press and hold the MODE/UP Buttons to exit Time Period Programming at any time.

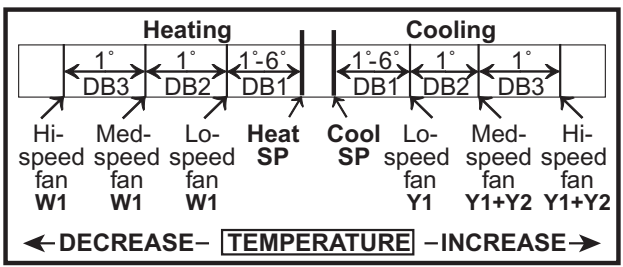
About Advanced Features & Operation

DEADBAND OPERATION - Controls one Heat and one Cool stage with a three speed fan (see below).

The **low speed fan** for heat or cool is turned on when: The temperature spread from the setpoint is equal to or greater than: *the setpoint plus the 1st stage deadband (Setup Step 11, page 17)*. This 1st stage deadband is adjustable from 1-6 degrees and the default is two degrees.

The **medium speed fan** for heat or cool is turned on when: The temperature spread from the setpoint is equal to or greater than: *the setpoint plus the 1st stage deadband (Setup Step 11, page 17), plus the 2nd stage dead-band*. This 2nd stage deadband is fixed at one degree and is not adjustable.

The **high speed fan** for heat or cool is turned on when: The temperature spread from the setpoint is equal to or greater than: *the setpoint plus the 1st stage deadband (Setup Step 11, page 17), plus the 2nd stage deadband, plus the 3rd stage deadband*. This 3rd stage deadband is fixed at one degree and is not adjustable.



About Advanced Features & Operation: Calibration

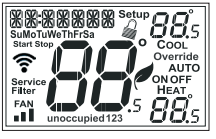
Calibration

Under normal circumstances it will not be necessary to adjust the calibration of the temperature sensor. If calibration is required, please contact a trained HVAC technician to correctly perform the following procedure.

1 MODE Place the thermostat in the OFF mode.

---

2 MODE Press and hold the MODE button. While holding the MODE button, press and hold the DOWN button for 5 seconds.
All icons will appear on the display.



---

3 MODE Press the MODE button once. The thermostat temperature will be displayed and may be calibrated using the **UP** or **DOWN** buttons. The calibrated offset from the "raw" temperature reading is displayed in the lower right corner.

Additionally, on this screen you may view the Software Version in the upper left corner.

---

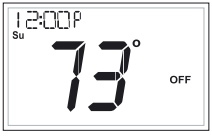
4 MODE After calibration is complete, press the MODE button **once** to save your changes and return to normal operation.

Factory Defaults

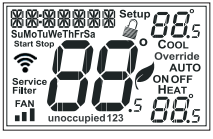
If, for any reason, you desire to return all the stored settings back to the factory default settings, follow the instructions below.

WARNING: This will reset all Time Period and Advanced Programming to the default settings. Any information entered prior to this reset will be permanently lost.

1 MODE Place the thermostat in the OFF mode.



2 MODE Press and hold the MODE button. While holding the MODE button, press and hold the DOWN button for 5 seconds. All icons will appear on the display.



3 FAN **A.** After all of the icons appear, release the MODE and DOWN buttons.
B. Press and hold the FAN button for 2 seconds. Fd (Factory default settings) and ALL will appear on the display.

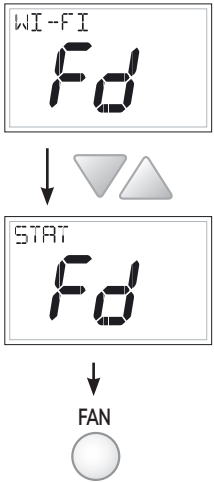
(Continued)

(Continued)

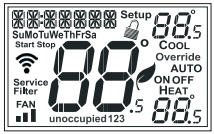
You now have the option of restoring the factory settings to just Wi-Fi (**Wi-Fi**), or just the thermostat (**STAT**), or both the thermostat and Wi-Fi (**ALL**).

C. Select one of the above options using the Up or Down buttons.

D. Press FAN for 2 seconds to restore the factory settings.



After factory settings are restored, the thermostat display will return to the "all icon" screen.



4 MODE To return to normal operation; Press the **MODE** button twice.

Advanced Setup Table

FD = Factory Default Setting

Step #	Description	Pg #	Range	FD
1	CLOCK	14	12A - 12A	12P
2	WEEKDAY	14	Monday - Sunday	Monday
3	SHOW CLOCK	14	On, Off	On
4	PROG	15	On, Off	On
5	BACKLIGHT	15	On, Off	Off
6	NIGHTLT	15	On, Off	Off
7	NIGHTLT START	15	12A - 12A	8:00P
8	NIGHTLT STOP	15	12A - 12A	6:00A
9	NUMBER OF WATER PIPES	16	4 PIPE, 2 PIPE	4 PIPE
10	2 PIPE SUBMODE (only if prior step=2)	16	Heat only, Cool Only Auto Change, Total Elec Auto Change, Aux Heat Auto Change	Auto Change
11	1ST STAGE DEADBAND	17	1 - 6 degrees	2
12	MINIMUM HEAT/COOL SPREAD (unless 2 pipe single mode)	17	0 - 6 degrees	2
13	SETPOINT LIMITS	18	On, Off	Off
14	MAX HEAT SETPOINT	18	35 - 99 degrees	82
15	MIN COOL SETPOINT	18	35 - 99 degrees	66
16	MAX OVRRIDE TIME IN HOURS	19	0 - 4 hrs	4
17	DISPLAY F/C	19	F, C	F
18	CONTINUOUS FAN, ON (low) or OFF (auto)	19	On, Off	Off
19	FAN TYPE, ON (IEC) or OFF	19	On, Off	Off
20	WIRED SENSOR TYPE	19	control, monitor	control
21	CONTROL TO TEMP SOURCE	20	thermostat, sensor	thermostat
22	PRE-OCC FAN PURGE TIME	20	off - 3 hrs	off
23	HOT WATER VALVE TYPE	21	n.o / n.c.	n.c.
24	CHILLED WATER VALVE TYPE	21	n.o / n.c.	n.c.
25	DRY CONTACT POLARITY	22	n.o / n.c.	n.c.
26	DRY CONTACT USE	22	occupied, condensate, fdd, holiday	condensate
27	SKYPORT	23	On, Off	On
28	API	23	On, Off	Off
29	TIME API	23	On, Off	Off

TO ENTER MENUS.....BUTTON PRESS

Setup Steps.....MODE & OVERRIDE for 5 sec.
Time Schedule.....MODE & UP for 2 seconds
Emergency Heat.....UP & OVERRIDE for 2 seconds

TO ENTER MENUS.....BUTTON PRESS

Lockout Buttons.....MODE, UP & DOWN for 2 sec.
Calibration.....MODE & DOWN for 2 sec., then MODE
Wireless Setup.....OVERRIDE for 5 Seconds

Terms and Conditions

TERMS AND CONDITIONS

1. Orders shall not be binding upon International Environmental Corporation, an Oklahoma corporation (hereinafter referred to as "IEC") unless accepted by an authorized representative of IEC at its office in Oklahoma City, Oklahoma. No distributor, sales representative or any other person or entity (except authorized employees of IEC at its office in Oklahoma City, Oklahoma) has any authority whatsoever to bind IEC to any representation or agreement of any kind.

2. IEC does not build items to plans and specifications. IEC agrees to furnish only the items as described in IEC's acknowledgment unless IEC's office in Oklahoma City, Oklahoma has previously received and accepted, in writing, approved submittals from Purchaser.

3. Prices acknowledged are firm only if Purchaser releases the goods covered by this order for immediate production by IEC within sixty (60) days from the date of Purchaser's initial offer to purchase and for shipment by IEC within IEC's estimated shipping date, unless otherwise agreed to in writing by IEC at its office in Oklahoma City, Oklahoma. If Purchaser does not meet the terms and conditions of this paragraph, the prices are subject to escalation to those prices in effect at time of shipment without notice to Purchaser.

4. All prices are F.O.B. IEC's factory, unless otherwise agreed by IEC in writing; and, all payments and prices shall be in U.S.A. dollars.

5. If goods are released for production but IEC is prevented by the Purchaser from shipping upon completion or by IEC's estimated shipping date, whichever is later, IEC may at its option, in addition to all other remedies, invoice Purchaser to be payable within thirty (30) days and store the goods at Purchaser's sole expense.

6. Title to and risk of loss to the goods passes to the Purchaser F.O.B. IEC's factory.

7. **Disclaimer**
It is expressly understood that unless a statement is specifically identified as a warranty, statements made by IEC or its representatives relating to IEC's products, whether oral, written or contained in any sales literature, catalog or any other agreement, are not express warranties and do not form a part of the basis of the bargain, but are merely IEC's opinion or commendation of IEC's products. **EXCEPT AS SPECIFICALLY SET FORTH HEREIN, THERE IS NO EXPRESS WARRANTY AS TO ANY OF IEC'S PRODUCTS. IEC MAKES NO WARRANTY AGAINST LATENT DEFECTS IEC MAKES NO WARRANTY OF MERCHANTABILITY OF THE GOODS OR OF THE FITNESS OF THE GOODS FOR ANY PARTICULAR PURPOSE.**

8. **Grant of Limited Express Warranty**
IEC warrants IEC products purchased and retained in the United States of America and Canada to be free from defects in material and workmanship under normal use and maintenance as follows: (1) All complete fan coil units built or sold by IEC for twelve (12) months from date of unit start up or eighteen (18) months from date of shipment (from factory), whichever comes first.

All parts must be returned to IEC's factory in Oklahoma City, Oklahoma, freight prepaid, no later than sixty (60) days after the date of the failure of the part; if IEC determines the part to be defective and within IEC's Limited Express Warranty, IEC shall, when such part has been either replaced or repaired, return such to a factory recognized contractor or service organization, F.O.B. IEC's factory, Oklahoma City, Oklahoma, freight prepaid. The warranty on any parts repaired or replaced under warranty expires at the end of the original warranty period. For information and warranty service contact:

International Environmental Corporation
Customer Service
5000 West I-40
Oklahoma City, OK 73128
(405) 605-5000

This warranty does not cover and does not apply to: (1) Air filters, fuses, fluids; (2) Products relocated after initial installation; (3) Any portion or component of any system that is not supplied by IEC, regardless of the cause of the failure of such portion or component; (4) Products on which the unit identification tags or labels have been removed or defaced; (5) Products on which payment to IEC is or has been in default; (6) Products which have defects or damage which result from improper installation, wiring, electrical imbalance characteristics or maintenance; or are caused by accident, misuse or abuse, fire, flood, alteration or misapplication of the product; (7) Products which have defects or damage which result from a contaminated or corrosive air or liquid supply or operation at abnormal temperature (8) Mold, fungus or bacteria damages; (9) Products subjected to corrosion or abrasion; (10) Products manufactured or supplied by others; (11) Products which have been subjected to misuse, negligence or accidents; (12) Products which have been operated in a manner contrary to IEC's printed instructions; or (13) Products which have defects, damage or insufficient performance as a result of insufficient or incorrect system design or the improper application of IEC's products.

IEC is not responsible for: (1) The cost of any fluids or other system components, or associated labor to repair or replace the same, which is incurred as a result of a defective part covered by IEC's Limited Express Warranty; (2) The costs of labor, materials or service incurred in removal of the defective part, or in obtaining and replacing the new or repaired part; or, (3) Transportation costs of the defective part from the installation site to IEC or of the return of any part not covered by IEC's Limited Express Warranty.

Limitation: This Limited Express Warranty is given in lieu of all other warranties. If, notwithstanding the disclaimers contained herein, it is determined that other warranties exist, any such warranties, including without limitation any express warranties or any implied warranties of fitness for particular purpose and merchantability, shall be limited to the duration of the Limited Express Warranty.

9. **Limitation of Remedies**
In the event of a breach of the Limited Express Warranty, IEC will only be obligated at IEC's option to repair the failed part or unit or to furnish a new or rebuilt part or unit in exchange for the part or unit which has failed. If after written notice to IEC's factory in Oklahoma City, Oklahoma of each defect, malfunction or other failure and a reasonable number of attempts by IEC to correct the defect, malfunction or other failure and the remedy fails of its essential purpose, IEC shall refund the purchase price paid to IEC in exchange for the return of the sold good(s). Said refund shall be the maximum liability of IEC. **THIS REMEDY IS THE SOLE AND EXCLUSIVE REMEDY OF THE BUYER OR THEIR PURCHASER AGAINST IEC FOR BREACH OF CONTRACT, FOR BREACH OF ANY WARRANTY OR FOR IEC'S NEGLIGENCE OR IN STRICT LIABILITY.**

10. **Limitation of Liability**
IEC shall have no liability for any damages if IEC's performance is delayed for any reason or is prevented to any extent by any event such as, but not limited to: any war, civil unrest, government restrictions or restraints, strikes, or work stoppages, fire, flood, accident, shortages of transportation, fuel, material or labor, acts of God or any other reason beyond the sole control of IEC. **IEC EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGE IN CONTRACT, FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, OR IN TORT, WHETHER FOR IEC's NEGLIGENCE OR AS STRICT LIABILITY.**

11. IEC shall have no system design, application or maintenance responsibility or responsibility for mold, fungus or bacteria to Purchaser or any other third party.

12. All sales, goods and services, use, excise, value added, transportation, privilege, occupational consumption, storage, document, transaction or other taxes which may be levied by any taxing authority as a result of this transaction shall be paid by the Purchaser.

13. Unless otherwise agreed to in writing by IEC any technical data furnished in conjunction with this order and not obtainable from another source shall not be duplicated, used, or disclosed in whole or in part for any purpose other than to evaluate this order.

14. IEC shall have no liability or other obligation hereunder, if IEC's performance is delayed for any reason or is prevented to any extent by any event such as, but not limited to: any act of God, strike or work stoppage, fire, flood, accident, allocation, or other controls of Government authorities, shortages of transportation, fuel, material or labor, or any other cause beyond IEC's sole control. Any shipping date stated by IEC is IEC's best estimate but IEC makes no guarantee of shipment by any such date and shall have no liability or other obligation for failure to ship on such date, regardless of cause.

15. Payment terms are net thirty (30) days from date of shipment on approved credit. One and one half percent (1 1/2%) per month (18% annual rate) may be charged on past due accounts or the highest rate permitted by applicable law, whichever is lesser. In the event the account is placed for collection, Purchaser shall be responsible for all reasonable attorneys fees or costs on a solicitor and client basis, plus all other costs and expenses incurred by IEC in securing payment.

16. Purchaser shall not cancel the contract without prior written consent of an authorized representative of IEC at its offices in Oklahoma City, Oklahoma. In the event Purchaser cancels the contract with the prior written consent of IEC after the Purchaser's offer to purchase is received and acknowledged in writing, IEC shall be entitled to receive from Purchaser IEC's cost incurred to time of cancellation plus a reasonable allowance for overhead and profit.

17. Purchaser shall not assign any of its interest or rights under this agreement without written consent of IEC.

18. IEC will protect all its lien rights. IEC will not furnish lien waivers or releases until IEC receives payment, in full, at its office in Oklahoma City, Oklahoma from Purchaser for the goods covered by this order. There is no authorized retainage for any reason.

19. This Agreement shall be construed, and the rights and liabilities of the parties hereunder shall be determined in accordance with the laws of the State of Oklahoma. If it shall be found that any portion of this agreement violates any particular law of the United States or any state in the United States having jurisdiction or, if applicable, any law of Canada or any province or territory in Canada having jurisdiction, such portion of the agreement shall be of no force and effect in that political unit, division or sub-division in which they are illegal or unenforceable and the agreement shall be treated as if such portion or portions had not been inserted. In the event that any dispute or disagreement in connection with any order should arise or exist between Purchaser and IEC, jurisdiction and venue for any legal action shall be, if IEC so elects, exclusively in the state or federal courts in Oklahoma County, Oklahoma. The statute of limitations on any claim of the Purchaser against the IEC shall be one (1) year from the date the cause of action accrues.

20. Without regard to any other agreement, all obligations of Purchaser to IEC shall become immediately due and payable if Purchaser becomes insolvent or if Purchaser does not make payments when due or breaches any other agreement or fails to perform any obligation.

21. All orders are expressly limited and made conditional upon acceptance by Purchaser of the terms and conditions set forth above without change. There shall be no understandings, agreements, or obligations (outside these terms and conditions) unless specifically set forth in writing and accepted by signature of an authorized representative of IEC in Oklahoma City, Oklahoma.

22. The parties hereto have requested that these presents and all judicial proceedings relating thereto be drafted in English. Les parties aux présentes ont demandé à ce que les présentes et toutes procedures judiciaires y afférentes soient rédigées en anglais

It is the responsibility of the end user to properly characterize and dispose of all waste materials according to applicable regulatory and legal entities. Where reasonable, safe, and compliant with local regulatory and legal requirements, IEC encourages recycling materials when disposing of its products.

IEC Installation Manual Part Number: |100-9004454 (9/2020)

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