

WIZARD

Evaporator Control For Multiple Zones



WEC-2ZN, WEC-3ZN, WEC-4ZN
Addendum
PART # 44-0332-00



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CAUTION, RISK OF ELECTRIC SHOCK!!!

SHUT OFF ALL POWER TO CONTROL PANEL AND CONTROL CIRCUITS BEFORE OPENING ENCLOSURE DOOR AND PERFORMING SERVICE.



CAUTION, RISK OF ELECTRIC SHOCK!!!

RELAY CONTACTS MAY BE ELECTRIFIED ALTHOUGH CONTROL POWER TO PANEL IS SHUT OFF. ENSURE THAT ALL POWER IS DISCONNECTED BEFORE OPENING ENCLOSURE DOOR AND PERFORMING SERVICE



CAUTION, IMPROPER CONNECTION OF EXTERNAL DEVICES MAY RESULT IN DAMAGE TO CONTROL SYSTEM.

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INTRODUCTION

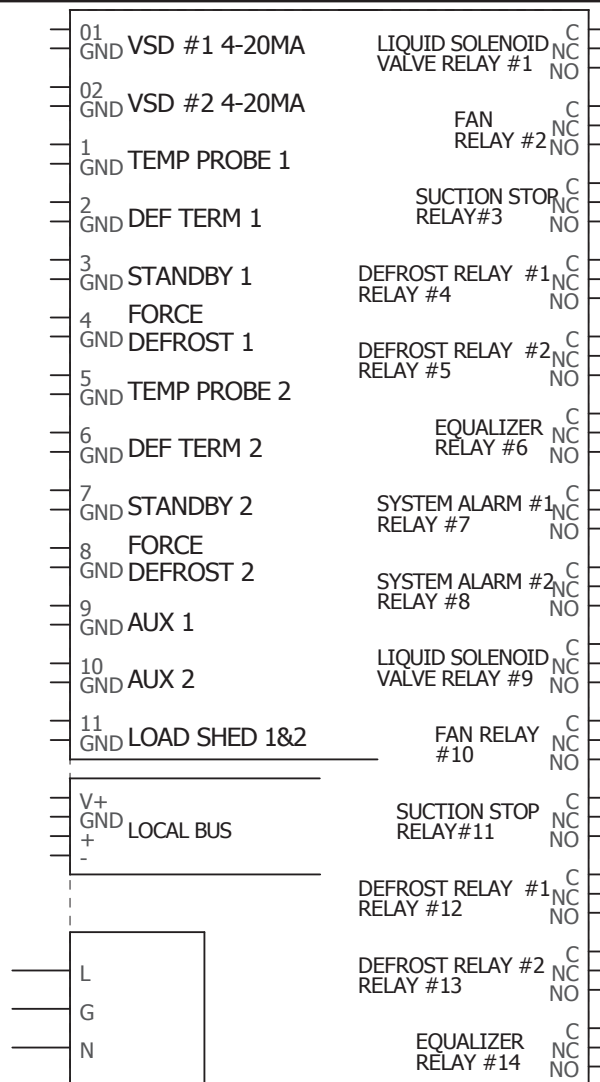
This manual addendum was written specifically for the *Wizard* “Master Control” (WEC-1ZN, WEC-2ZN and WEC-4ZN) option. It is meant to be used in conjunction with manual part number 44-0288 Wizard Evaporator Control. The Wiring diagrams in this addendum are meant to be used along with any instruction in the manual 44-0288. Also, the menus that are in this addendum are abbreviated from the Evaporator Control manual to show only the places where the “MASTER” control differs from the Standard Wizard Evaporator Control Manual. Please refer to both manuals when programming your control.

The Wizard 2-Zone Main “Master” (WEC-1ZN, WEC-2ZN) and 3 and 4-Zone (WEC-3ZN, WEC-4ZN) Main - Secondary “Master - Slave”, Evaporator Control Systems allow you to control and monitor the temperature and defrost of up to 4 valve groups in the same room from one main "Master" Wizard control using a single room temperature sensor or up to 4 temperature sensors. Each control can defrost together or separately depending upon time or using a separate temperature termination sensor input for each system.

The Wizard performs the functions of the following independent control systems:

Evaporator Valve Group Status Monitor
Multi-Function Defrost Clock
Temperature Control
Temperature Monitoring and Alarming
Load Shedding Control
System Shutdown
Temperature Recorder
Alarm System

The Master Wizard 2 System (WEC-2ZN) control was designed to operate one or two Evaporators with Defrost (Zones One and two). The WEC-2ZN will also connect to an Auxiliary “Slave” Wizard to operate another one or two Evaporators with Defrost (Zones Three and four) and control from the same display panel. The “Master” and



WEC-2ZN-VSD IO

“Slave” system are collectively Wizard 3 System (WEC-3ZN) & Wizard 4 System (WEC-4ZN) Please note: Some features listed in the manual for the standard Wizard are not available in all versions of this control. If a menu is absent from your control, then the feature is not available in your model. VSD fan control also available as a factory installed option.

Wizard Multi-Zone Evaporator Control Configuration Option

Model	Stand-alone Control	Master Control	Slave Control	Total Zone Controls
WEC-4ZN	4	---	---	4
	2	1	1	4
	1	1	2	4
	---	2	2	4
	---	1	3	4
WEC-3ZN	3	---	---	3
	1	1	1	3
	---	1	2	3
WEC-2ZN	2	---	---	2
	---	1	1	2
WEC-1ZN	---	1	---	1

RELAY OUTPUTS WEC-3ZN & -4ZN

Wizard Master Control

The Relay Outputs of the WEC are each a SPDT relay, rated to 250 VAC / 30 VDC with a 3.15 Amp Time Lag fuse. Multiple devices can be controlled with each relay, as long as the combined current draw does not exceed 3 Amps.

Connections to each relay are made via board mounted screw terminals. Each terminal is rated for 12-24 AWG, copper only wire with insulation rated at least 300V isolation, 105 °C.

Each circuit is a dry contacts signal with a 3.15Amp Time Lag fuse connected to the common leg.

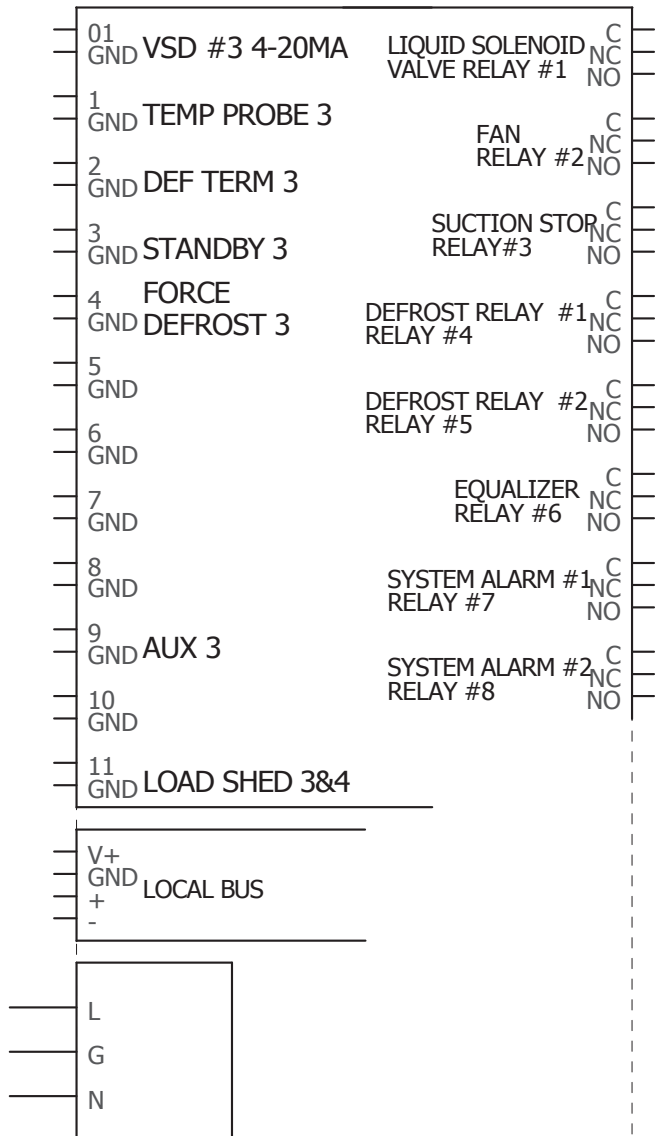
**Wizard Auxiliary “Slave” Defrost Control**

The functionality of each relay is pre-assigned. The following is a description of each relay:

RLY 1 System 1 Liquid Line Solenoid Relay (System 3 for Slave Control) -- (SPDT) This relay is assigned to control the opening and closing of the Liquid Line Solenoid. This relay can be configured to Energize to Open or Energize to Close.

RLY 2 System 1 Evaporator Fan (Normally Closed) Control Relay (System 3 for Slave Control) -- (SPDT) This relay is assigned to control the starting and stopping of the evaporator fan. This relay is not sized to directly control a fan motor. **DO NOT CONNECT FAN MOTOR DIRECTLY TO THIS RELAY.**

OUTPUT 01 Used with Relay 2. Can control a 4-20mA Variable Speed Fan (VSD) for Zone 1 Master or Zone 3 Slave.

**WEC-3ZN-VSD IO**

RLY 3 System 1 Suction Stop Valve Relay (System 3 for Slave Control) -- (SPDT) This relay is assigned to either close a Suction Stop Solenoid Valve or to open a Suction Stop Pilot Valve.

RLY 4 System 1 Soft Gas Defrost #1 Relay (System 3 for Slave Control) -- (SPDT) This relay has multiple uses depending on the defrost method.

For a Hot Gas System -- Connect the contacts to a Soft Gas Solenoid, if available.

For a Water Defrost -- Connect the contacts to a Water Pump Contactor. **DO NOT CONNECT A PUMP MOTOR DIRECTLY TO THIS RELAY.** This relay is not sized to directly control a water pump.

For an Electric Defrost -- Connect the contacts to an Electric Defrost Pre-heat, 1st Stage contactor, if available.

RLY 5 System 1 Hot Gas Defrost #2 Relay (System 3 for Slave Control) -- (SPDT) This relay has multiple uses depending upon the defrost method.

For a Hot Gas System -- Connect the contacts to a Hot Gas Solenoid, if available.

For a Water Defrost -- Connect the contacts to a Water Defrost Control Solenoid.

For an Electric Defrost -- Connect the contacts to an Electric Defrost contactor.

RLY 6 System 1 Equalizer / Suction Bleed Valve Relay (System 3 for Slave Control) -- (SPDT)
This relay is assigned to control the Equalizer or Suction Bleed Valve.

RLY 9 System 2 Liquid Line Solenoid Relay (System 4 for Slave Control) -- (SPDT) This relay is assigned to control the opening and closing of the Liquid Line Solenoid. This relay can be configured to Energize to Open or Energize to Close.

RLY 10 System 2 Evaporator Fan (Normally Closed) Control Relay (System 4 for Slave Control) -- (SPDT) This relay is assigned to control the starting and stopping of the evaporator fan. This relay is not sized to directly control a fan motor. **DO NOT CONNECT FAN MOTOR DIRECTLY TO THIS RELAY.**

OUTPUT 02 Used with Relay 10. Can control a 4-20mA Variable Speed Fan (VSD) for Zone 2 Master or Zone 4 Slave.

RLY 11 System 2 Suction Stop Valve Relay (System 4 for Slave Control) -- (SPDT) This relay is assigned to either close a Suction Stop Solenoid Valve or to open a Suction Stop Pilot Valve.

RLY 12 System 2 Defrost #1 Relay (System 4 for Slave Control) -- (SPDT) This relay has multiple uses depending upon the defrost method.

For a Hot Gas System -- Connect the contacts to a Soft Gas Solenoid, if available.

For a Water Defrost -- Connect the contacts to a Water Pump Contactor. **DO NOT CONNECT A PUMP MOTOR DIRECTLY TO THIS RELAY.** This relay is not sized to directly control a water pump.

For an Electric Defrost -- Connect the contacts to an Electric Defrost Pre-heat, 1st Stage contactor, if available.

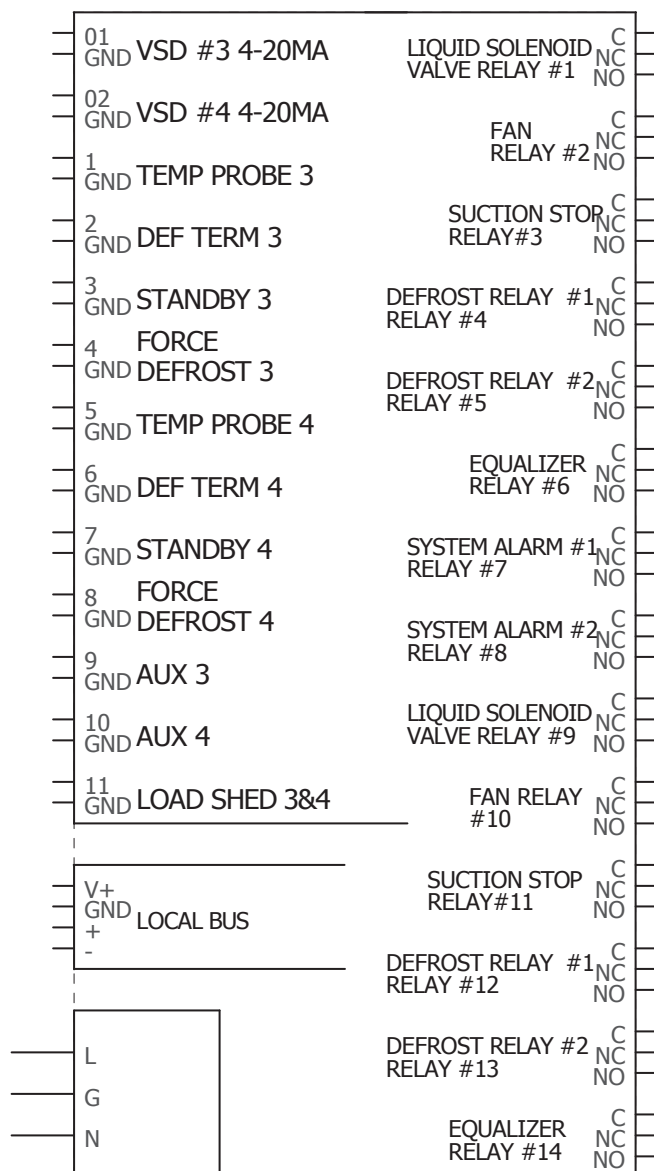
RLY 13 System 2 Defrost #2 Relay (System 4 for Slave Control) -- (SPDT) This relay has multiple uses depending upon the defrost method.

For a Hot Gas System -- Connect the contacts to a Hot Gas Solenoid, if available.

For a Water Defrost -- Connect the contacts to a Water Defrost Control Solenoid.

For an Electric Defrost -- Connect the contacts to an Electric Defrost contactor.

RLY 14 System 2 Equalizer / Suction Bleed Valve Relay (System 4 for Slave Control) -- (SPDT)
This relay is assigned to control the Equalizer or Suction Bleed Valve.



WEC-4ZN-VSD IO

ALARM RELAY OUTPUTS

The Alarm Relay Outputs on the Wizard are two sets of SPDT Alarm Relays.

RLY 7 System Alarm (Normally Closed) Relay 1 -- (SPDT) This relay is assigned to indicate a Low Temperature Alarm. Connect to either an Audio Visual Signalling device or to an Alarm Monitoring Panel (Building Automation System)

RLY 8 System High Temp (Normally Closed) Alarm Relay 2 -- (SPDT) This relay is assigned to indicate a High Temperature Alarm. Connect to either an Audio Visual Signalling device or to an Alarm Monitoring Panel (Building Automation System)

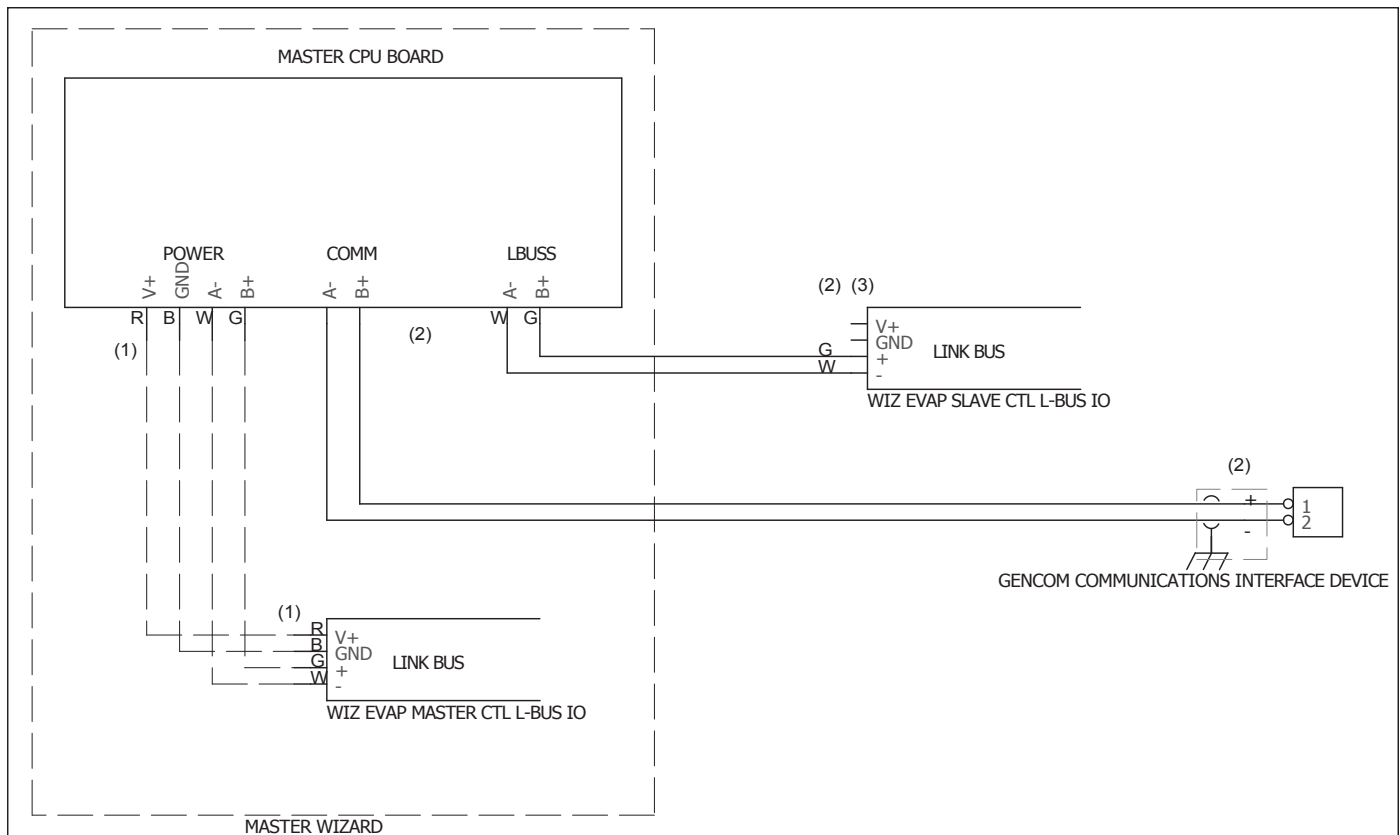
MAIN - SECONDARY NETWORK WIRING

The Secondary Wizard Control communicates with the Main Wizard controller via an RS-485 protocol, two wire link. Use a 2-22 AWG Shielded cable, Belden 8451 or equivalent.

GENCOM OPTION - NETWORK WIRING

The Main (MASTER) Wizard Control communicates with GenCom via a separate RS-485 protocol, two wire link. Use a 2-22 AWG Shielded cable, Belden 8451 or equivalent.

For all other input / output wiring specifications, please refer to manual 44-0288 where applicable.



NOTES:

- (1) THE 4-WIRE CONNECTION FROM THE MASTER CPU TO THE MASTER IO IS DONE AT THE FACTORY PRIOR TO SHIPPING.
- (2) OBSERVE THE LABELS ON THE CONTROL. BE SURE POLARITY IS CORRECT. DO TO REDESIGNS, THE "+" AND "-" MAY NOT BE ON THE SAME SIDE ON YOUR CONTROL AS SHOWN IN THE DIAGRAM.
- (3) WIRE COLOR TO SLAVE IS ONLY A RECOMMENDATION. NO CONNECTION AT "V+" AND "GND".

COLOR CODING:

- | | |
|-----------|-----------|
| RED - R | BLACK - B |
| GREEN - G | WHITE - W |

Wizard "Master" / "Slave" & GenCom Computer Wiring Diagram

GENESIS INT'L INC
WEC MULTI ZONES CTRL

TIME:
11/29/12 MON 17:23

1. <ACCESS MENU>
2. <CONFIGURATION MENU> *
3. <DEFROST DATA MENU>*
4. <VSD SETTING MENU>*
5. <TEMP CONTROL MENU>*
6. <AUX TEMP MENU>*
7. <STANDBY CTRL MENU>*
8. <LOAD SHEDDING MENU>
9. <SET CLOCK MENU>
10. <DATA LOG MENU>*
11. <MAINTENANCE MENU>*
12. <CLEAR/VIEW ALARM>
13. <CALIBRATION MENU>*
14. <STATUS MENU>

EXIT



<ACCESS MENU>
SELECT KEY TO ENTER

SELECT/
CHANGE

<ACCESS MENU>
IN VIEW ONLY MODE

SELECT/
CHANGE

<ACCESS MENU>
IN ALL ACCESS MODE

EXIT

<Instruction>

Change a system value:

1. Click the **SELECT** key, current value begins to blink.
2. Use the **UP** or **DOWN** arrow to find your desired value.
3. Click the **SELECT** key again to confirm your option.
4. Click the **DOWN** arrow to go to the next screen or click the **EXIT** key to leave the menu. If you are in an sub-menu, click the **EXIT** key again to leave the main menus

Change from one submenu to another:

1. Click the **EXIT** key to leave the current submenu.
2. Use the **UP** or **DOWN** arrow to find other submenus.
3. Click the **SELECT** key to enter the selected submenu.
4. Click the **EXIT** key to leave this submenu. Click the **EXIT** key again to leave the main menus.

Main Menu and Sub-Menu:

There are 12 Main Menu, see the list chart on the left.
Among the 12 main menu, 8 of them have sub-menus with a star on the left chart.

<ACCESS MENU>

Press the **EXIT** key.

Press the **DOWN** arrow until the <ACCESS MENU> screen appears.

Press the **SELECT** key to enter the <ACCESS MENU>. The control should be in the "IN VIEW ONLY MODE".

Press and **hold** the **SELECT** key for 10 seconds will change the control to "IN ALL ACCESS MODE".

Press the **EXIT** key to exit the <ACCESS MENU>
Press the **DOWN** arrow for the next menu.

(End of <ACCESS MENU>)

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▼	
SELECT/CHANGE	<CONFIGURATION MENU> SELECT KEY TO ENTER
SELECT/CHANGE	<<GENERAL CONFIG>> SELECT KEY TO ENTER
▼	<<GENERAL CONFIG>> SHOW TEMP IN: °F
▼	<<GENERAL CONFIG>> TYPE OF DFT: HOT GAS
▼	<<GENERAL CONFIG>> LIQ VALVE: N.O
▼	<<GENERAL CONFIG>> ENABLE ZONE-1: NO
▼	<<GENERAL CONFIG>> ENABLE ZONE-2: NO
▼	<<GENERAL CONFIG>> ENABLE ZONE-3: NO
▼	<<GENERAL CONFIG>> ENABLE ZONE-4: NO
▼	<<GENERAL CONFIG>> ENABLE LOADSHED: NO
▼	<<GENERAL CONFIG>> POWER UP DLY,S: 30
▼	<<GENERAL CONFIG>> LOG INTERVAL,M: 0
▼	<<GENERAL CONFIG>> COMM BAUDRATE,K: 19.2
▼	<<GENERAL CONFIG>> COMM STATION NO.: 1
▼	<<GENERAL CONFIG>> CLEAR ALARM LOG: NO
▼	<<GENERAL CONFIG>> CLEAR DATA LOG: NO
▼	<<GENERAL CONFIG>> CLEAR MEMORY: NO

<CONFIGURATION MENU>

Press the **EXIT** key and then **DOWN** arrow until you see the **< CONFIGURATION MENU >**.
Press the **SELECT** key to enter it.

1. << GENERAL CONFIG>> submenu

This sub-menu contains system settings for all zones.

Set displayed temperature units of measurement (F/C)

Option: °F or °C

Default value: °F

Select Type of Defrost

Options: HOT GAS / WATER / ELECTRIC / OFFTIME

Default Value: HOT GAS

Set the Liquid Valve Normally Opened or Closed.

Options: N.O./ N.C.

Default Value: N.O.

Enable Zone-1 through Zone-4 Controls

Option: YES/NO

Default value: NO

Activate Load Shedding Option (YES/NO)

Default value: NO

Set Power Up Delay (0 to 600 sec)

Default value: 30 seconds

Set Data Logging Interval (0 to 120 min)

Default value; 0 minute

Set Baud Rate for Gencom2 Remote Communication

Option: 1.2K / 2.4K / 4.8K / 9.6K / 19.2K / to 38.4K

Default value: 1.2K

Set Station Number for Gencom2 (0-255)

Default value: 0

Clear Alarm Log (YES/NO)

Clear Data Log (YES/NO)

Clear Memory (YES/NO)

Clearing Alarm Log, Data Log, and all Configuration settings.

EXIT	▼
SELECT/ CHANGE	<<ZONE-01 CONFIG>> SELECT KEY TO ENTER
▼	<<ZONE-01 CONFIG>> ENABLE TEMP CTRL: NO
▼	<<ZONE-01 CONFIG>> T-SENSOR USE: ZONE1
	<<ZONE-01 CONFIG>> T-SENSOR USE: ZONE2
▼	<<ZONE-01 CONFIG>> ENABLE DEFROST: NO
▼	<<ZONE-01>> RUN DFT BY LIQ RUN-TIME: NO
▼	<<ZONE-01 CONFIG>> SATURDAY DEFROST: OWN
▼	<<ZONE-01 CONFIG>> SUNDAY DEFROST: OWN
▼	<<ZONE-01 CONFIG>> DFT TERM BY: T-PROBE
▼	<<ZONE-01>> LIQ SHUT FAN SHUT OFF: NO
▼	<<ZONE-01 CONFIG>> ENABLE AUX CTRL: NO
▼	<<ZONE-01 CONFIG>> ENABLE STANDBY: NO
▼	<<ZONE-01 CONFIG>> ENABLE VSD CTL: NO
EXIT	
▼	<<ZONE-02 CONFIG>> SELECT KEY TO ENTER
EXIT	EXIT

Press the **EXIT** key and then press the **DOWN** arrow to get to <<ZONE-1 CONFIG>> submenu.

2. << ZONE-1 CONFIG >> submenu

This submenu will only be displayed if Zone-1 is enabled in the <<GENERAL CONFIG>>submenu.

Enable Temperature Control for Zone-1 (YES/NO)

Select Temperature Control Sensor for Zone-1

This screen will only be displayed if Temp Control is enabled in <<ZONE-1 CONFIG>> as above.

Option: ZONE-1 -> ZONE-4

Default value: ZONE-1 (own T-Probe)

Enable Defrost Control for Zone-1 (YES/NO)

Run Defrost By Liquid Run-Time for Zone-1

This screen will only be displayed if Defrost Control is enabled in <ZONE-1 CONFIG>

Select Saturday Defrost Schedule for Zone-1

This screen will be displayed if "Run Defrost by Liquid Run-Time" above is set to "NO" in <ZONE-1 CONFIG>.

Option: M-F / OWN

Default value: OWN

Select Saturday Defrost Schedule for Zone-1

Select Defrost Termination Mode

This option will only be displayed if Defrost Control is enabled in <ZONE-1 CONFIG>.

Option: T-PROBE / CLICK-ON

Default value: CLICK-ON

Set Coil Pump Down Option (YES/NO)

This option will only be displayed if Temperature Control is enabled in ZONE-1 CONFIG>.

Enable Auxiliary Control for Zone-1 (YES/NO)

Enable Standby Control for Zone-1 (YES/NO)

Enable VSD Control for Zone-1 (YES/NO)

Press the **EXIT** key, then press the **DOWN** arrow to get to the next submenu. << ZONE-2, 3, or 4 CONFIG >> submenu, repeat above

Press the **EXIT** key twice to leave the submenu and the main menu of <CONFIGURATION MENU>.

Press the **DOWN** arrow for the next menu.

(End of <CONFIGURATION MENU>)



<DEFROST DATA MENU>



<<DEFROST LENGTH>>
SELECT KEY TO ENTER



<<ZONE-01 HOT GAS>>
PUMPDOWN CYC,M: 2



<<ZONE-01 HOT GAS>>
SOFTGAS CYC,M: 2



<<ZONE-01 HOT GAS>>
M-F DEFROST, M: 15



<<ZONE-01 HOT GAS>>
SAT DEFROST,M: 15



<<ZONE-01 HOT GAS>>
SUN DEFROST,M: 15



<<ZONE-01 HOT GAS>>
DRIP CYCLE, M: 1



<<ZONE-01 HOT GAS>>
EQUALIZE CYC, M: 2



<<ZONE-01 HOT GAS>>
FAN ON DELAY,M: 2



<<ZONE-01 HOT GAS>>
DFT TERM SPT: 50.0°F



<<ZONE-X HOT GAS>>
.....



<DEFROST DATA MENU>

This menu will be displayed if any zone defrost is enabled.

Press the **DOWN** arrow until you see the <DEFROST DATA MENU>. Press the **SELECT** key to enter it. There are 5 sub-menus under <DEFROST DATA MENU> Press the **SELECT** key to enter it.

1. <<DEFROST LENGTH>> submenu

Select Zone-1 pump down length (0 - 250 minutes)

This screen will be displayed only if defrost control is enabled in <<ZONE-1 CONFIG>>.

Select soft gas length

(0 - 250 minutes)

Select Zone-1 Monday-Friday defrost length

(0 - 250 minutes)

Select Zone-1 Saturday defrost length (0 - 250 min)

This screen will be displayed if Saturday defrost is set to OWN in <<ZONE-1 CONFIG>>.

Select Zone-1 Sunday defrost length (0 - 250 min)

This screen will be displayed if Sunday defrost is set to OWN in <<ZONE-1 CONFIG>>.

Select Zone-1 drip cycle length (0 - 250 minutes)

Select Zone-1 equalize cycle length (0 - 250 minutes)

Select Zone-1 fan on delay (0 - 250 minutes)

Select Zone-1 defrost termination setpoint

This screen will be displayed if Defrost Termination By T-PROBE is selected in <<ZONE-1 CONFIG>>

Range: 38.0°F - 50.0°F

Default value: 50.0°F

Repeat setup for Zone-2, Zone-3, and Zone-4 if their defrost control is enabled in the <<ZONE-X CONFIG>>.

Press the **EXIT** key, and then **DOWN** arrow for the next submenu.

SELECT/ CHANGE	<<MON-FRI DEFROST>>
▼	<<ZONE-01 MON-FRI>> # OF DEFROSTS/DAY: 2
▼	<<ZONE-01 MON-FRI>> START TIME 1: 0:00
▼	<<ZONE-01 MON-FRI>> START TIME 2: 12:00
▼	<<ZONE-X MON-FRI>> # OF DEFROSTS/DAY: 2
EXIT	▼
SELECT/ CHANGE	<<SATURDAY DEFROST>>
▼	<<ZONE-01 SATURDAY>> # OF DEFROSTS/DAY: 2
▼	<<ZONE-01 SATURDAY>> START TIME 1: 0:00
▼	<<ZONE-01 SATURDAY>> START TIME 2: 12:00
▼	<<ZONE-X SATURDAY>> # OF DEFROSTS/DAY: 2
EXIT	▼
SELECT/ CHANGE	<<SUNDAY DEFROST>>
▼	<<ZONE-01 SUNDAY>> # OF DEFROSTS/DAY: 2
▼	<<ZONE-01 SUNDAY>> START TIME 1: 0:00
▼	<<ZONE-01 SUNDAY>> START TIME 2: 12:00
▼	<<ZONE-X SUNDAY>> # OF DEFROSTS/DAY: 2
EXIT	▼

2. <<MON-FRI DEFROST>> submenu
Press the **SELECT** key to enter.

Select Zone-1 # of defrosts per day for Monday-Friday
Range: 0 - 8
Default value: 2

Set Zone-1 defrost start time 1 for Monday-Friday

Set Zone-1 defrost start time 2 for Monday-Friday
... Set start time up to 8 ...

Do the same setup for Zone-2, Zone-3 and Zone-4.

Press EXIT key and DOWN arrow to next sub-menu.

3. <<SATURDAY DEFROST>> submenu
This submenu will be displayed if any zone's Saturday defrost is set to its "OWN" at <<Zone-X Config>>.
Press the **SELECT** key to enter.

Select Zone-1 # of defrosts per day for Saturday (0 - 8)
This submenu will be displayed if Zone-1 Saturday defrost is set to its "OWN" in <<ZONE-1 CONFIG>>.
Default value: 2

Set Zone-1 defrost start time 1 for Saturday

Set Zone-1 defrost start time 2 for Saturday
... Set start time up to 8 ...

Do the same setup for Zone-2, Zone-3 and Zone-4.

Press EXIT key and DOWN arrow to next sub-menu.

4. <<SUNDAY DEFROST>> submenu
This submenu will be displayed if any zone set Sunday defrost set to its OWN in <<ZONE-1 CONFIG>>.
Press the **SELECT** key to enter.

Select Zone-1 # of defrosts per day for Sunday (0-8)
This submenu will be displayed if Zone-1 Sunday defrost is set to its OWN in <<ZONE-1 CONFIG>>.
Default value: 2

Set Zone-1 defrost start time 1 for Sunday

Set Zone-1 defrost start time 2 for Sunday
... Set start time up to 8 ...

Do the same setup for Zone-2, Zone-3 and Zone-4.
Press the **EXIT** key and **DOWN** arrow to next sub-menu.



<<SET LIQ RUNTIME>>
SELECT KEY TO ENTER



<<ZONE-1 LIQ RTM>>
BETWEEN DEF,M: 240



<<ZONE-2 LIQ RTM>>
BETWEEN DEF,M: 240



<<ZONE-3 LIQ RTM>>
BETWEEN DEF,M: 240



<<ZONE-4 LIQ RTM>>
BETWEEN DEF,M: 240



EXIT



EXIT

5. <<SET LIQ RUNTIME>> submenu

*This submenu will be displayed if any zone set to Run Defrost by Liquid Run-Time in the<<Zone-X Config>> Press the **SELECT** key to enter it.*

Set Liquid Runtime Between Defrost for Zone-1,2,3,4
This submenu will be displayed if Run Defrost by Liquid Runtime set to YES in <<Zone-1 Config>>.

Range: 60 - 5400 minutes

Default: 240 minutes

Press the **EXIT** key twice to leave the submenu and main menu of <DEFROST DATA MENU>

Press the **DOWN** arrow to go to the next menu.

(End of <DEFROST DATA MENU>)

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EXIT

EXIT

▼

SELECT/CHANGE

<TEMP SETTING MENU>

SELECT/CHANGE

<<ZONE-01 SETTING>>
SELECT KEY TO ENTER

▼

<<ZONE-01 SETTING>>
TEMP SETPT: 32 °F

▼

<<ZONE-01 SETTING>>
TEMP DIFF: 2 °F

▼

<<ZONE-01 SETTING>>
HIGH ALARM: +5.0 °F

▼

<<ZONE-01 SETTING>>
HIGH ALARM DLY,M: 20

▼

<<ZONE-01 SETTING>>
LOW ALARM: -5.0 °F

▼

<<ZONE-01 SETTING>>
LOW ALARM DLY,M: 20

▼

<<ZONE-01 SETTING>>
FAN OFF DLY,S: 0

▼

<<ZONE-01 SETTING>>
FAN ON DLY,S: 0

EXIT

▼

<<ZONE-X SETTING>>
SELECT KEY TO ENTER

EXIT

EXIT

▼

<TEMP SETTING MENU>

Press the **EXIT** key twice to leave any submenu and main menu, then press the **DOWN** arrow until the screen <TEMP CONTROL MENU> appears. Press the **SELECT** key to enter it.

1. <<ZONE-1 SETTING>> submenu

Press the **SELECT** key to enter it. This submenu will be displayed only if Zone-1 temp control is enabled in the <<Zone-1 Config>>

Set the temperature setpoint for Zone-1

Range: -50.0°F - 100.0°F

Default Value: 32.0°F

Set the temperature differential for Zone-1. For VSD, this screen will not show. 4.0°F built in.

Range: 1.0°F - 5.0°F

Default Value: 2.0°F

Set the temperature high alarm for Zone-1

Range: + 1.0°F -> +10.0°F

Default Value: + 5.0°F

Set the temperature high alarm delay for Zone-1

Range: 0 - 90 minutes

Default Value: 20 minutes

Set the temperature low alarm for Zone-1

Range: -1.0°F -> -10.0°F

Default Value: -5.0°F

Set the temperature low alarm delay for Zone-1

Range: 0 - 90 minutes

Default Value: 20 minutes

Set the temperature fan off delay for Zone-1

Range: 0 - 3600 seconds

Default Value: 0 Seconds

Set the temperature fan on delay for Zone-1

Range: 0 - 600 seconds

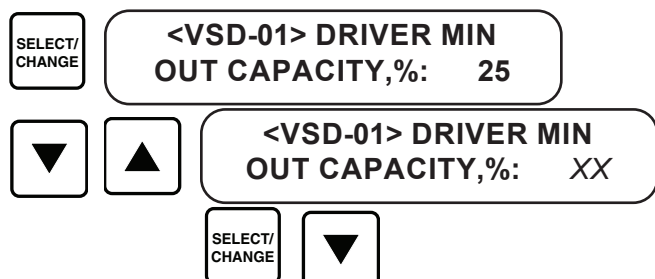
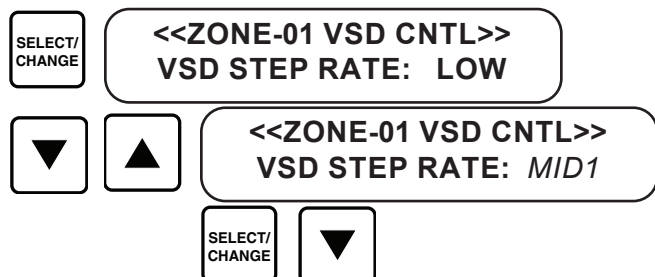
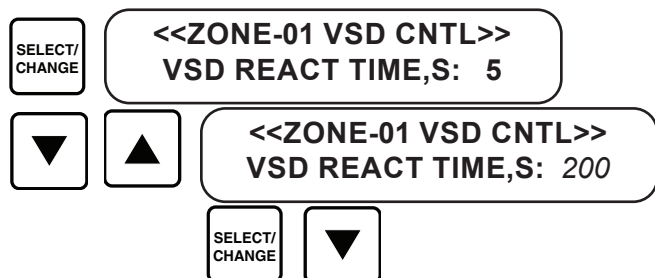
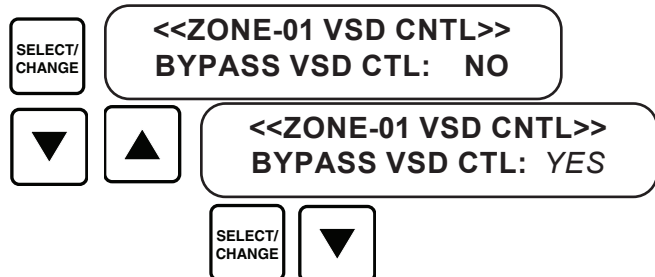
Default Value: 0 Seconds

Do the same setup for Zone-2, Zone-3 and Zone-4.

Press the **EXIT** key twice to leave the submenu and main menu of <TEMP CONTROL MENU>. Press the **DOWN** arrow to for the next menu.

(End of <DEFROST DATA MENU>)

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<VSD DRIVE MENU>

This menu will only be displayed if VSD Control is enabled in the <Configuration Menu>. Some WEC controls do not have this feature, so this will not be shown.

Press the **DOWN** arrow until the <VSD DRIVE MENU> screen appears. Press the **SELECT** key to enter it.

If Zone 1 VSD was enable in the <Configuration Menu> *this screen appears*. Press the **SELECT** key to enter it.

BYPASS VSD DRIVE CONTROL

To temporarily bypass VSD control and run in fixed mode, press the **SELECT** key. The "NO" will begin to blink. Press the **DOWN** arrow to change it to a blinking "YES". Press the **SELECT** key to save this entry. Press the **DOWN** arrow for the next or EXIT to leave.

SET THE VSD REACTION TIME

The VSD ramp up reaction time can be speed up or slowed down. This is time between how often the control checks the temperature and the setpoint in order to decide whether to speed up the VSD. To change the VSD reaction time, press the **SELECT** key. The value will begin to blink. Press the **UP** or **DOWN** arrow to set the desired value. Press the **SELECT** key to save this entry.

Range 5 to 200 Seconds
Increments 1 Second
Default 30 Seconds

SET THE VSD STEP RATE

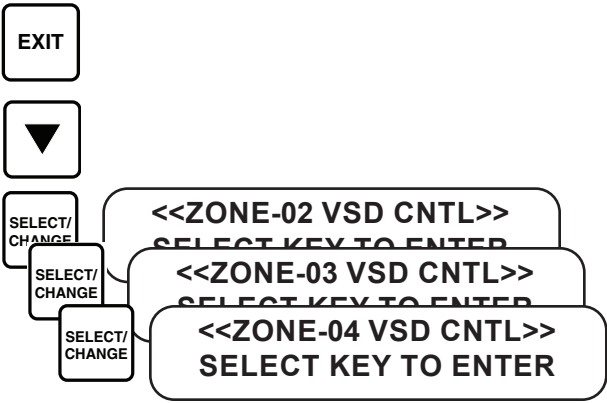
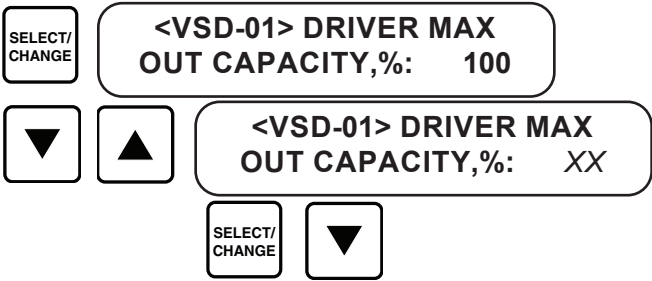
The VSD can step up or step down at different rates of speed. This is a dynamic change also dependent upon how far away or close to the temperature setpoint the system is. To change the VSD step rate, press the **SELECT** key. The value will begin to blink. Press the **UP** or **DOWN** arrow to set the desired value. Press the **SELECT** key to save this entry.

Settings LOW MID1 MID2 HIGH

SET THE DRIVER MINIMUM OUTPUT CAPACITY%

To change the Driver Minimum Output Capacity, press the **SELECT** key. The value will begin to blink. Press the **UP** or **DOWN** arrow to set the desired value. Press the **SELECT** key to save this entry.

Range 0 to 59 %
Increments 1 %
Default 25 %



SET THE DRIVER MAXIMUM OUTPUT CAPACITY%
To change the Driver Maximum Output Capacity, press the **SELECT** key. The value will begin to blink.
Press the **UP** or **DOWN** arrow to set the desired value.
Press the **SELECT** key to save this entry.

Range	60 to 100 %
Increments	1 %
Default	100 %

Press the **EXIT** key, then press the **DOWN** arrow to get to the next submenu. << **ZONE-2, 3, or 4 VSD DRIVE** >> submenu, repeat above

Press the **EXIT** key twice to leave the submenu and the main menu of <VSD DRIVE MENU>.
Press the **DOWN** arrow for the next menu.

(End Of <VSD DRIVE MENU>)



<AUX TEMP MENU>

Press the **EXIT** key twice to leave any submenus and main menus, then press the **DOWN** arrow until you see the <Aux Temp Menu> shown on the left.
Press the **SELECT** key to enter it.

<<Zone-1 Aux Menu>> submenu

Press the **SELECT** key to enter it. This submenu will be displayed if Zone-1 Aux control is enabled in the <<Zone-1 Config>>

Set auxiliary temp high alarm setpoint for Zone-1
Range: -40.0°F - 150.0°F
Default Value: 80.0°F

Set auxiliary temperature high alarm delay for Zone-1
Range: 1 - 90 minutes
Default Value: 20 minutes

Set auxiliary temp low alarm setpoint for Zone-1
Range: -45.0°F - 120.0°F
Default Value: -30.0°F

Set auxiliary temperature high alarm delay for Zone-1
Range: 1 - 90 minutes
Default Value: 20 minutes

Check auxiliary temp control while system in defrost
Option: YES/NO
Default Value: NO

Repeat the same setup for following submenus:

<<ZONE-2 AUX MENU>>

<<ZONE-3 AUX MENU>>

<<ZONE-4 AUX MENU>>

Press the **EXIT** key twice to leave <AUX TEMP MENU>

Press the **DOWN** arrow for the next menu.

(End of <AUX TEMP MENU>)

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EXIT	EXIT	▼
SELECT/ CHANGE	<STANDBY CTRL MENU>	
SELECT/ CHANGE	<<ZONE-01 STANDBY>> SELECT KEY TO ENTER	
▼	<<ZONE-01 STANDBY>> STBY MODE: INPUT	
▼	<<ZONE-01 STANDBY>> START TIME: 0:00	
▼	<<ZONE-01 STANDBY>> END TIME: 0:00	
▼	<<ZONE-01 STANDBY>> STBY FAN ON: NO	
▼	<<ZONE-01 STANDBY>> STBY SUC STOP: NO	
EXIT	▼	
<<ZONE-X STANDBY>> SELECT KEY TO ENTER		
EXIT	EXIT	
▼		

<STANDBY CTRL MENU>

Press the **EXIT** key twice to leave any submenus and main menus, then press the **DOWN** arrow until you see the <STANDBY CTRL MENU> shown on the left.
Press the **SELECT** key to enter it.

1. <<ZONE-1 STANDBY>> submenu
Press the **SELECT** key to enter it.
This submenu will be displayed only if Zone-1 standby control is enabled in the <<ZONE-1 CONFIG>>

Set standby mode for Zone-1
Option: INPUT, ACT NOW, SCHEDULE
Default Value: INPUT

Set standby start time for Zone-1
This screen will be displayed only if Zone-1 standby mode set to by "SCHEDULE"
Default Value: 0:00

Set standby end time for Zone-1
This screen will be displayed only if Zone-1 standby mode set to by "SCHEDULE"
Default Value: 0:00

Turn on the fan while Zone-1 in standby
Option: YES/NO
Default Value: NO

Turn on suction stop valve while Zone-1 in standby
Option: YES/NO
Default Value: NO

Press the EXIT key and DOWN arrow to go to the next submenu. Repeat the same setup for following submenus:
2. <<ZONE-2 STANDBY>> submenu
3. <<ZONE-3 STANDBY>> submenu
4. <<ZONE-4 STANDBY>> submenu

Press the **EXIT** key twice to leave the submenu and main menu of <STANDBY CTRL MENU>

Press the **DOWN** arrow to go to the next menu.

(End of <STANDBY CTRL MENU>)

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**<SET CLOCK MENU>
SELECT KEY TO ENTER**

<SET CLOCK MENU>

Press the **EXIT** key twice to leave any submenus and main menus. Press the **DOWN** arrow until you see the <SET CLOCK MENU> screen appears.
Press the **SELECT** key to enter it.

<HOW TO EDIT CLOCK>

Press the **SELECT** key, the current value should begin to blink. Press the **UP** or **DOWN** arrows to change to the desired value. Press the **SELECT** key to save this entry. Press the **DOWN** arrow for the next or **EXIT** to leave.



**<SET CLOCK MENU>
THIS YEAR IS: YYYY**

Set the year



**<SET CLOCK MENU>
MONTH/DAY: MM/DD**

Set the month & day



**<SET CLOCK MENU>
TODAY IS: TUESDAY**

Set the day of the week



**<SET CLOCK MENU>
HOUR/MIN IS: HH:MM**

Set the clock hour & minutes



**<SET CLOCK MENU>
DAYLIGHT SAVING: NO**

Set the daylight savings option (YES/NO)

The Daylight Savings option will cause the control to automatically adjust the clock on the standard “Spring Forward” and Fall Back” days.

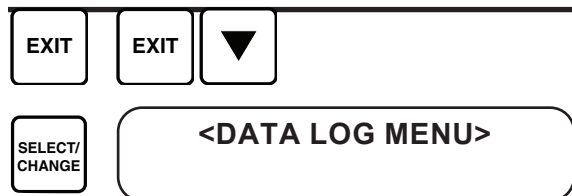


Press the **EXIT** key to leave <SET CLOCK MENU>

Press the **DOWN** arrow for the next menu.

(End of <SET CLOCK MENU>)

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<DATA LOG MENU>

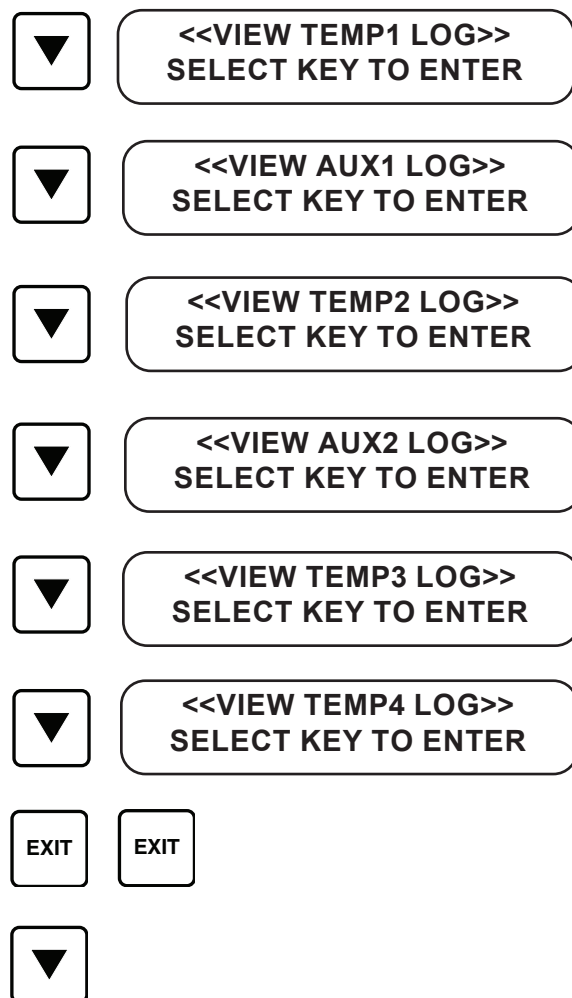
The data log menu will only be displayed if Data Log Interval is set greater than 1 in the <CONFIGURATION MENU>.

Press the **EXIT** key twice to leave any submenus and main menus, then press the **DOWN** arrow until you see the <DATA LOG MENU> shown on the left.

Press the **SELECT** key to enter it.

<HOW TO VIEW DATA LOG>

Press the **SELECT** key to enter it. Press the **UP** key to view history data. The most recent data is listed first as #1. The Wizard is able to store 8192 log entries, on a user defined logging interval. The log interval can be between 1 and 120 minutes. Setting the log interval to Zero at <CONFIGURATION MENU> will disable this function.



1. <<VIEW TEMP1 LOG>> submenu

This submenu will only be displayed if Temp Control for zone-1 is enabled in <ZONE-1 CONFIG>

2. <<VIEW AUX1 LOG>> submenu

This submenu will only be displayed if Aux Temp Control for zone-1 is enabled in <<ZONE-1 CONFIG>>.

3. <<VIEW TEMP2 LOG>> submenu

This submenu will only be displayed if Temp Control for zone-2 is enabled in <ZONE-2 CONFIG>

4. <<VIEW AUX2 LOG>> submenu

This submenu will only be displayed if Aux Temp for zone-2 is enabled in <<ZONE-2 CONFIG>>.

5. <<VIEW TEMP3 LOG>> submenu

This submenu will only be displayed if temp control for zone-3 is enabled in <ZONE-3 CONFIG>

6. <<VIEW TEMP4 LOG>> submenu

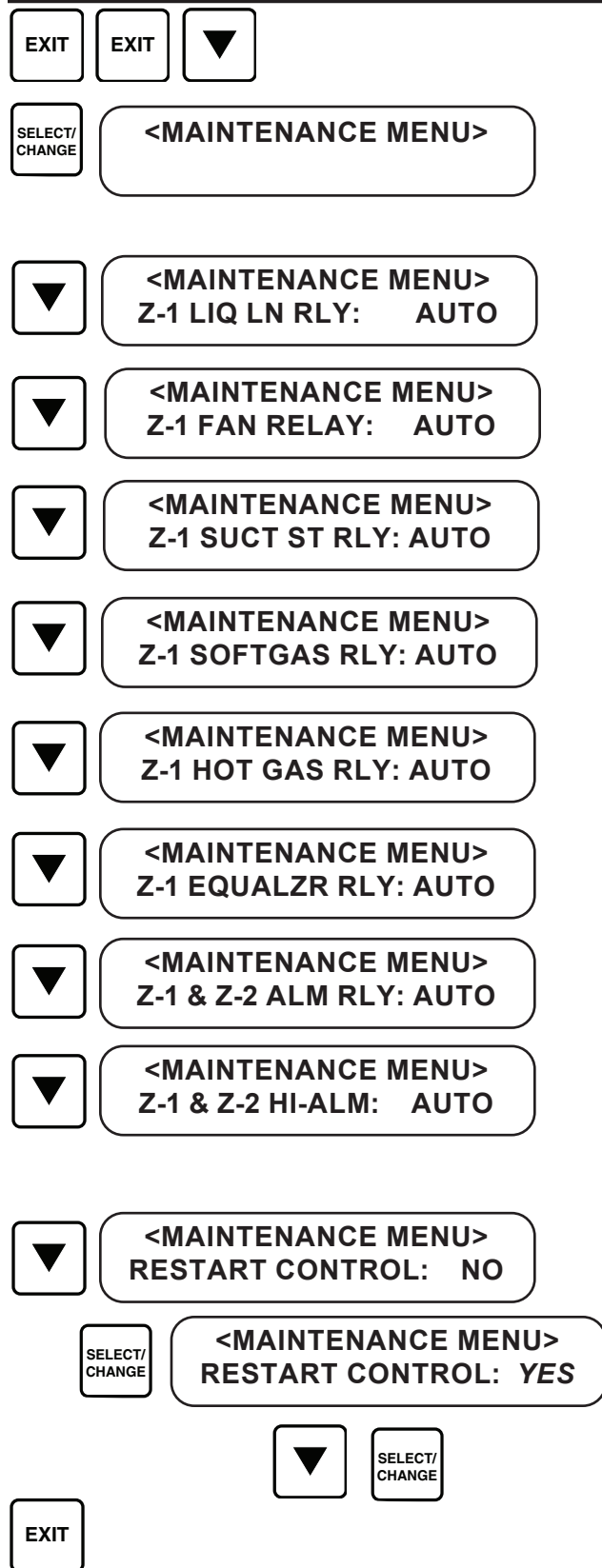
This submenu will only be displayed if temp control for zone-4 is enabled in <ZONE-4 CONFIG>

Press the **EXIT** key twice to leave the submenu and main menu of <DATA LOG MENU>.

Press the **DOWN** arrow for the next menu.

(End of <DATA LOG MENU>)

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<MAINTENANCE MENU>

Press the **EXIT** key twice. Press the **DOWN** arrow until the <MAINTENANCE MENU> screen appears. Press the **SELECT** key to enter it.

<HOW TO MAINTAIN A RELAY>

All relays can be set to either **ON** or **OFF** or leave them in the **AUTO** mode. Press the **SELECT** key, the default value **AUTO** should start to blink. Press **UP** or **DOWN** arrow to change it to **ON** or **OFF**. Press the **SELECT** key to start.

Force Z-1 Liquid Line Relay ON/OFF

Force Z-1 Fan Relay ON/OFF

Force Z-1 Suction Stop Relay ON/OFF

Force Z-1 Soft Gas Relay ON/OFF

Force Z-1 Hot Gas Relay ON/OFF

Force Z-1 Equalizer Relay ON/OFF

Force Z-1 & Z-2 System Alarm Relay ON/OFF

Force Z-1 & Z-2 System High Alarm Relay ON/OFF

Repeat the above for Zone-2, Zone-3, & Zone-4.

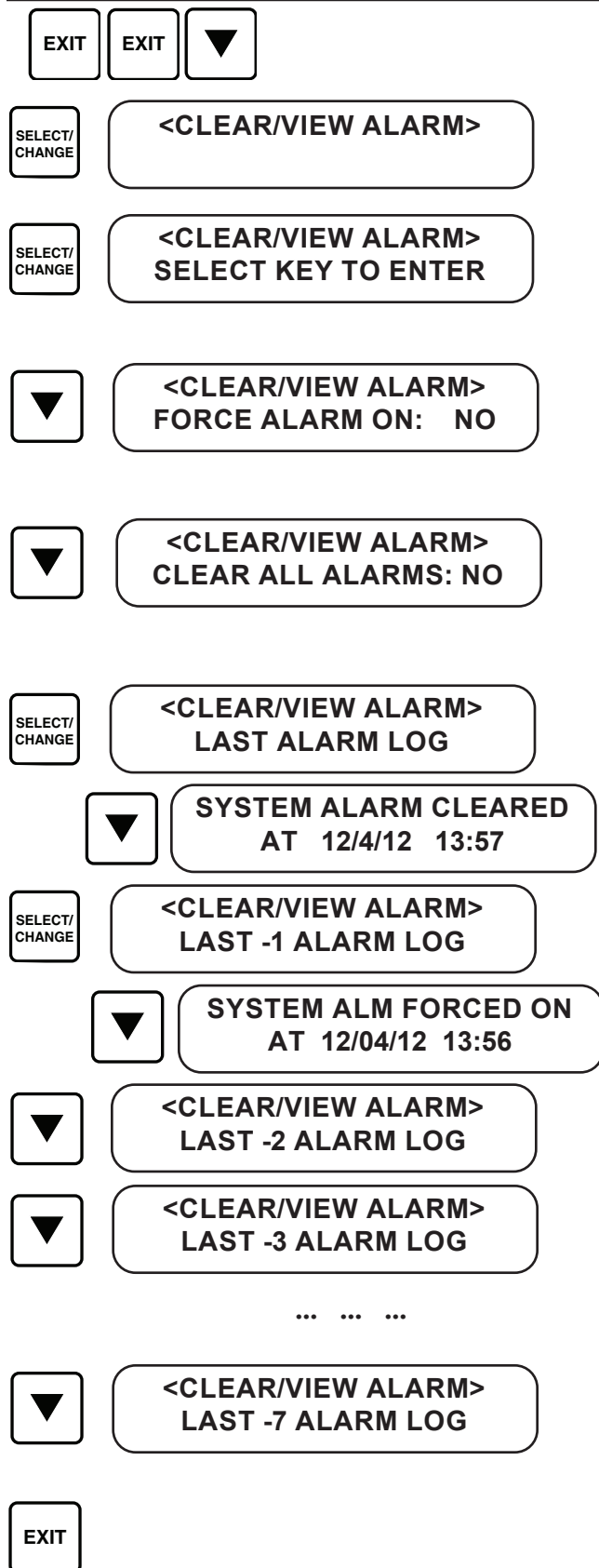
Restart the control option (YES/NO)

This option will cause the control to restart and begin a new refrigeration cycle, equivalent of shutting off the control and turning it back on.

Press the **SELECT** key, the “NO” should begin to blink. Press the **UP** or **DOWN** arrows to change it to YES. Press the **SELECT** key, control restart, a message of “RESETTING....” will be displayed.

Press the **EXIT** key to leave <MAINTENANCE MENU>

(End of <MAINTENANCE MENU>)



<CLEAR/VIEW ALARM>

This menu allows the user to clear active alarms, activate alarm relays to test alarming devices, and to view the controllers alarm log.

Press the **EXIT** key twice to leave any submenus and main menus, then press the **DOWN** arrow until **<CLEAR/VIEW ALARM>** screen appears. Press the **SELECT** key to enter it.

Force Alarm On (YES/NO)

This screen will only be displayed if there is no active system alarms.

Clear All System Alarms (YES/NO)

This screen will only be displayed if an active alarm is on.

View the Last Alarm Log

While in **<CLEAR/VIEW ALARM>**, press the **DOWN** arrow until the “LAST ALARM LOG” screen is displayed. The control system will log the last 8 alarms starting with the “last” or most recent alarm.

To view this log entry, press the **SELECT** key. The alarm message will be displayed on the top line and the alarm happened time will be displayed on the bottom line. See the example shows on the left.

Press the **DOWN** arrow, then press the **SELECT** key to **view the Last-1 Alarm Log**.

Press the **DOWN** arrow, then press the **SELECT** key to **view the Last-2 Alarm Log**.

... Repeat ...

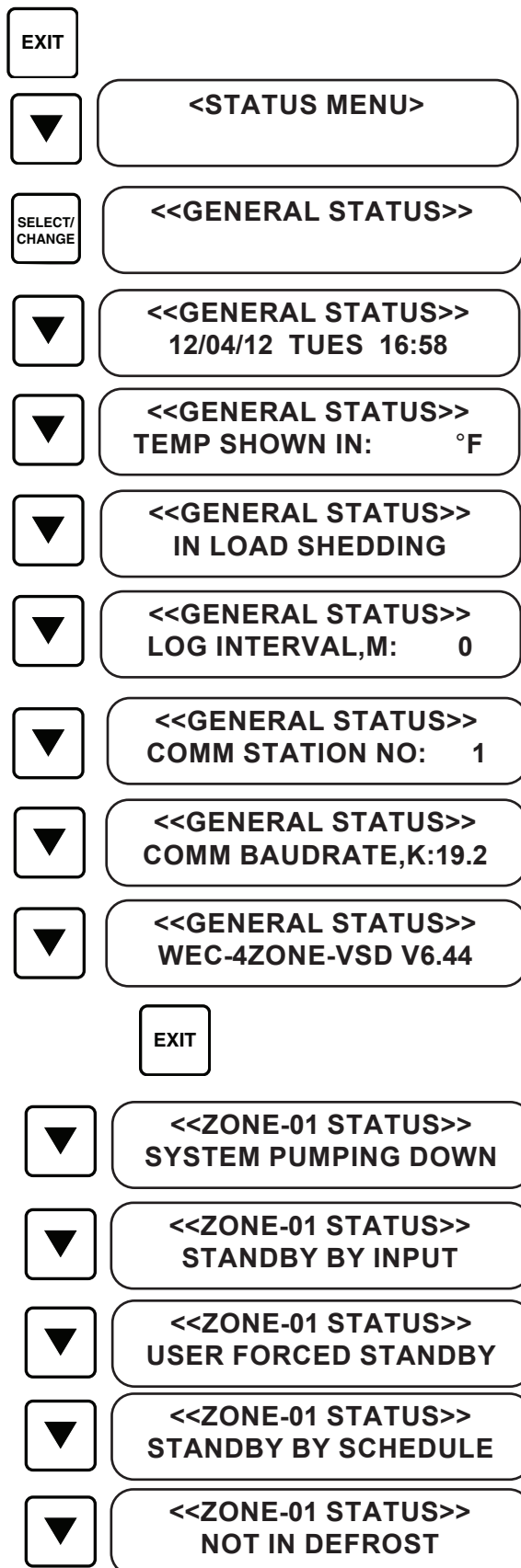
Press the **DOWN** arrow, then press the **SELECT** key to **view the Last-7 Alarm Log**.

Press the **EXIT** key to leave **<CLEAR/VIEW ALARM>**. Press the **DOWN** arrow for the next menu.

(End of **<CLEAR/VIEW ALARM>**)

Alarm Message / Description

NONE	// 1 There is no alarm in this entry in the alarm log.
SYSTEM POWER UP	// 2 Record time for system power on or restart after resetting.
LOCAL BUS ERR ZONE-12	// 3 Local bus communication error for zone 1 & 2 board.
LOCAL BUS ERR ZONE-34	// 4 Local bus communication error for zone 3 & 4 board.
SYSTEM ALM FORCED ON	// 5 Alarm forced on by user at menu <<CLEAR/VIEW ALARMS>>
SYSTEM ALARM CLEARED	// 6 Alarm cleared by user at menu <<CLEAR/VIEW ALARMS>>
ZONE-1 T-TERM HI ALARM	// 7 Zone-1 Defrost Termination High Alarm.
ZONE-1 TEMP HI ALARM	// 8 Zone-1 Temperature High Alarm.
ZONE-1 TEMP LO ALARM	// 9 Zone-1 Temperature Low Alarm.
ZONE-1 AUX T HI ALARM	//10 Zone-1 Aux Temperature High Alarm.
ZONE-1 AUX T LO ALARM	//11 Zone-1 Aux Temperature Low Alarm.
ZONE-2 T-TERM HI ALARM	//12
ZONE-2 TEMP HI ALARM	//13
ZONE-2 TEMP LO ALARM	//14 ----- ZONE-2 -----
ZONE-2 AUX T HI ALARM	//15
ZONE-2 AUX T LO ALARM	//16
ZONE-3 T-TERM HI ALARM	//17
ZONE-3 TEMP HI ALARM	//18
ZONE-3 TEMP LO ALARM	//19 ----- ZONE-3 -----
ZONE-3 AUX T HI ALARM	//20
ZONE-3 AUX T LO ALARM	//21
ZONE-4 T-TERM HI ALARM	//22
ZONE-4 TEMP HI ALARM	//23
ZONE-4 TEMP LO ALARM	//24 ----- ZONE-4 -----
ZONE-4 AUX T HI ALARM	//25
ZONE-4 AUX T LO ALARM	//26



<STATUS MENU> This menu allows the user to quickly view all of the operating parameters and information within a single menu. The following list contains the possible messages within the <STATUS MENU> and their meaning:

Press the **EXIT** key twice, then press the **DOWN** arrow until the <STATUS MENU> screen appears. Press the **SELECT** key to enter 5 submenus.

<<GENERAL STATUS>>

Current Time - Showing the current time in MM/DD/YY DOW hh:mm format.

Degree C or degree F: The wizard can display the temperature in Fahrenheit or centigrade

In Load Shedding shown only when the system is in load shedding mode.

Log Interval for remote communication logging. In minutes.

Comm Station No. Displays the control communications station number.

Comm Baud Rate Displays the control communications baud rate in K baud.

Version No. Displays the control software version number.

<<ZONE-01 STATUS>>

Standby Status:

One of the following messages will be shown if standby is enabled in <<ZONE-01 CONFIG>> and ZONE-01 is in standby mode.

1. System in pumping down
2. Standby by input
3. Standby by acting now, user forced standby
4. Standby by schedule

Defrost Status:

Not in defrost: This screen shown only if Wizard is in the Normal Refrigeration Mode.

▼	<<ZONE-01 STATUS>> IN DEF: PUMPDOWN CYC
▼	<<ZONE-01 STATUS>> IN DEF: SOFT GAS CYC
▼	<<ZONE-01 STATUS>> IN DEF: HOT GAS CYC
▼	<<ZONE-01 STATUS>> IN DEF: DRIP CYCLE
▼	<<ZONE-01 STATUS>> IN DEF: EQUALIZER CYC
▼	<<ZONE-01 STATUS>> IN DEF: FAN ON DLY
▼	<<ZONE-01 STATUS>> LIQUID VALVE: OPENED
▼	<<ZONE-01 STATUS>> LIQUID VALVE: CLOSED
▼	<<ZONE-01 STATUS>> EVAPORATOR FAN: ON
▼	<<ZONE-01 STATUS>> EVAPORATOR FAN: OFF
▼	<<ZONE-01 STATUS>> TEMP READ: 70.0°F
▼	<<ZONE-01 STATUS>> TEMP SETPT: 80.0°F
▼	<<ZONE-01 STATUS>> T ON-OFF DIFF: 2.0°F
▼	<<ZONE-01 STATUS>> TMP HI ALM: +5.0°F
▼	<<ZONE-01 STATUS>> TMP HI ALM DLY,M: 20
▼	<<ZONE-01 STATUS>> TMP LO ALM: -5.0°F
▼	<<ZONE-01 STATUS>> TMP LO ALM DLY,M: 20

In defrost & defrost cycle:

In this example, we use “HOT GAS” as the defrost type. One of the following six messages will be shown if system is in defrost.

1. In defrost coil pump down cycle
2. In defrost soft gas cycle
3. In defrost hot gas cycle
4. In defrost drip cycle
5. In defrost equalizer cycle
6. In defrost fan-on delay cycle.

Liquid Line Status: one of the two messages will be shown corresponds to the LED on the control.

1. Liquid valve opened.
2. Liquid valve closed.

Evaporator Fan Status: one of the two messages will be shown corresponds to the LED on the control.

1. Evaporator fan on.
2. Evaporator fan off.

Temp Read displays the current temperature reading of the temperature control sensor.

Temp Setpoint displays the temperature control alarm setpoint.

Temp on-off Differential displays the temperature differential setpoint. For VSD, this screen will not show. 4.0°F built in.

Temp High Alarm Temp setpoint + Temp High Alarm (this) = Temp High Alarm setpoint.

Temp High Alarm Delay displays the temperature control high alarm delay in minutes.

Temp Low Alarm Temp setpoint - Temp Low Alarm (this) = Temp Low Alarm setpoint.

Temp Low Alarm Delay displays the temperature control high alarm delay in minutes.

▼

<<ZONE-01 STATUS>>
 DFT TERM READ: 80.0°F

▼

<<ZONE-01 STATUS>>
 DFT TERM SPT: 25.6°F

▼

<<ZONE-01 STATUS>>
 DFT TERM INPUT : OPEN

▼

<<ZONE-01 STATUS>>
 DFT TERM INPUT : CLOSE

▼

<<ZONE-01 STATUS>>
 AUX READ: 78.0°F

▼

<<ZONE-01 STATUS>>
 AUX HI AL SP: 80.0°F

▼

<<ZONE-01 STATUS>>
 AUX HI ALM DLY,M: 20

▼

<<ZONE-01 STATUS>>
 AUX LO AL SP: -30.0°F

▼

<<ZONE-01 STATUS>>
 AUX LO ALM DLY,M: 20

▼

<<ZONE-01 STATUS>>
 VSD OUTPUT PCT: 62%

EXIT

▼

<<ZONE-02 STATUS>>

▼

<<ZONE-03 STATUS>>

▼

<<ZONE-04 STATUS>>

EXIT

EXIT

DFT Term Read displays the defrost termination sensor reading. This screen is shown only if DFT TERM BY T-PROBE is selected at <<ZONE-01 CONFIG>>

If defrost term read = -50.0°F, sensor unplugged.

If defrost term read = 150°F, wrong input is plugged.

DFT Term Setpoint displays the defrost termination setpoint. This screen is shown only if DFT TERM BY T-PROBE is selected at <<ZONE-01 CONFIG>>.

DFT Term Input Open/Close shown only if DFT Term Input is selected at <<ZONE-01 CONFIG>>.

Aux Temp Read displays current auxiliary temp sensor reading if Auxiliary is enabled in <<ZONE-01 CONFIG>>.

Aux High Alarm Setpoint displays current Auxiliary temp sensor high alarm setpoint.

Aux High Alarm Delay displays current Auxiliary temp sensor high alarm delay in minutes.

Aux Low Alarm Setpoint displays current Auxiliary temp sensor Low alarm setpoint.

Aux Low Alarm Setpoint displays current Auxiliary temp sensor low alarm delay in minutes.

VSD Output Percentage

Press EIXT key then DOWN arrow to view other zones.

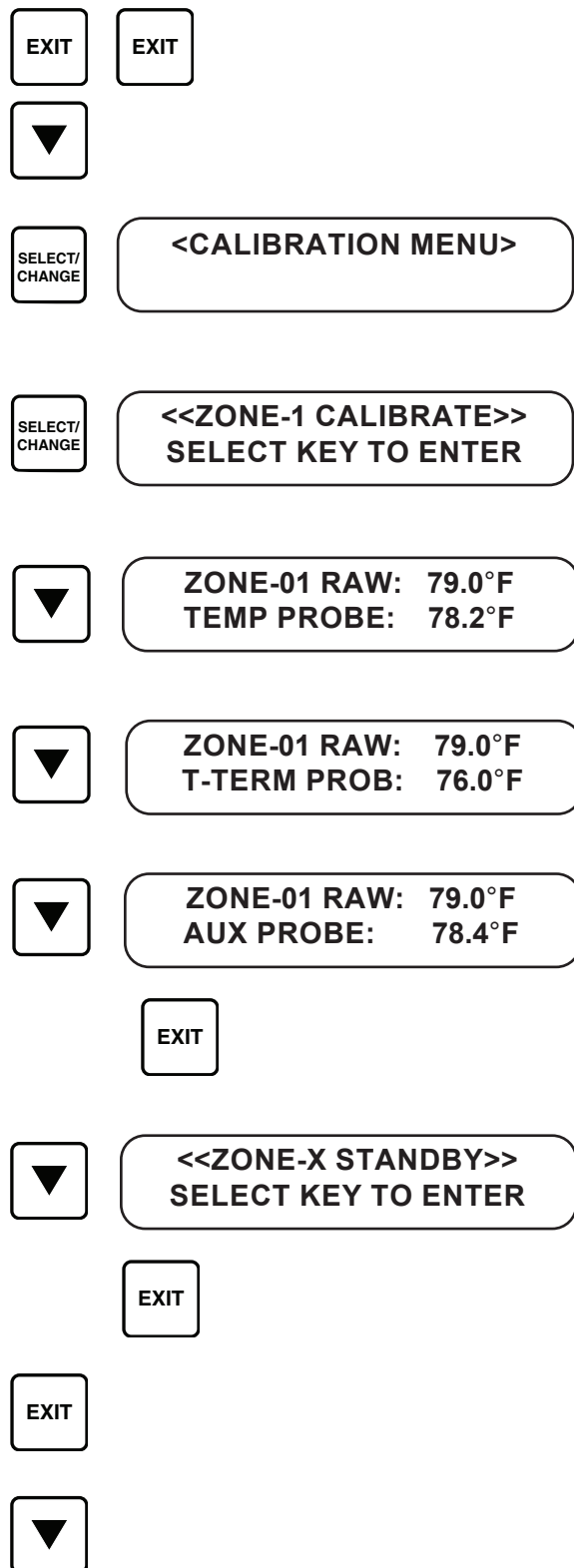
<<ZONE-02 STATUS>>
 <<ZONE-03 STATUS>>
 <<ZONE-04 STATUS>>

Press the EXIT key twice to leave <STATUS MENU>

Press the DOWN arrow for the next menu.

(End of <STATUS MENU>)

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<CALIBRATION MENU>

This menu will be displayed if any of the following sensor were installed in the <CONFIGURATION MENU> and or the <<ZONE-X CONFIG>> submenu.

Press the **EXIT** key twice. Press the **DOWN** arrow until the <CALIBRATION MENU> screen appears. Press the **SELECT** key to enter it.

1. <<ZONE-1 CALIBRATE>> submenu

Press the **SELECT** key to enter it.

This submenu will be displayed if any of the 3 sensor installed in <<ZONE-1 CONFIG>> (Temp sensor, Aux sensor, T-Term-probe)

Calibrate the temperature control sensor ZONE-01

Range: -50.0°F - 150.0°F

Increments 0.2°F

Calibrate the auxiliary temp sensor ZONE-01

Range: -50.0°F - 150.0°F

Increments 0.2°F

Calibrate defrost termination probe ZONE-01

Range: 0.0°F - 80.0°F

Increments 0.2°F

Repeat the same setup for following submenus:

2. <<ZONE-2 CALIBRATE>>

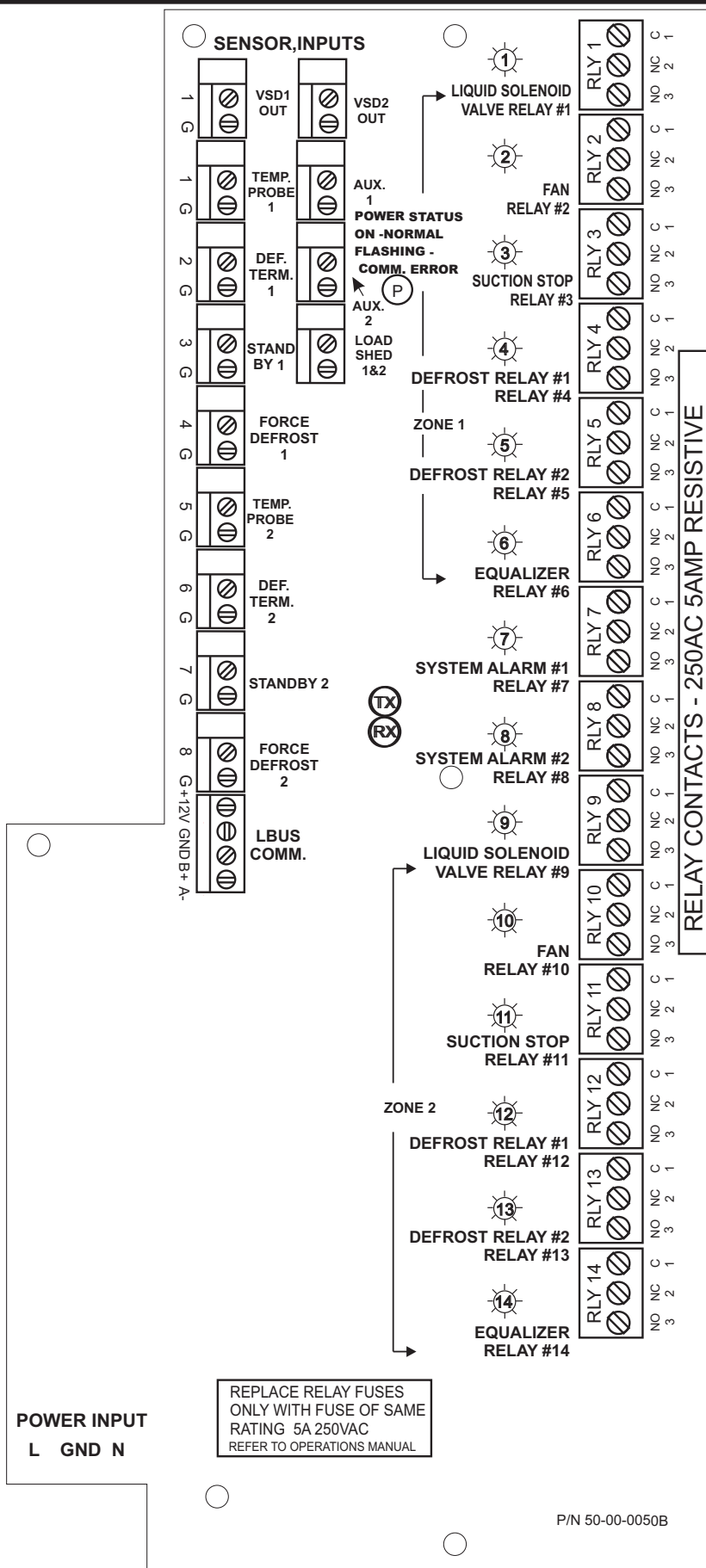
3. <<ZONE-3 CALIBRATE>>

4. <<ZONE-4 CALIBRATE>>

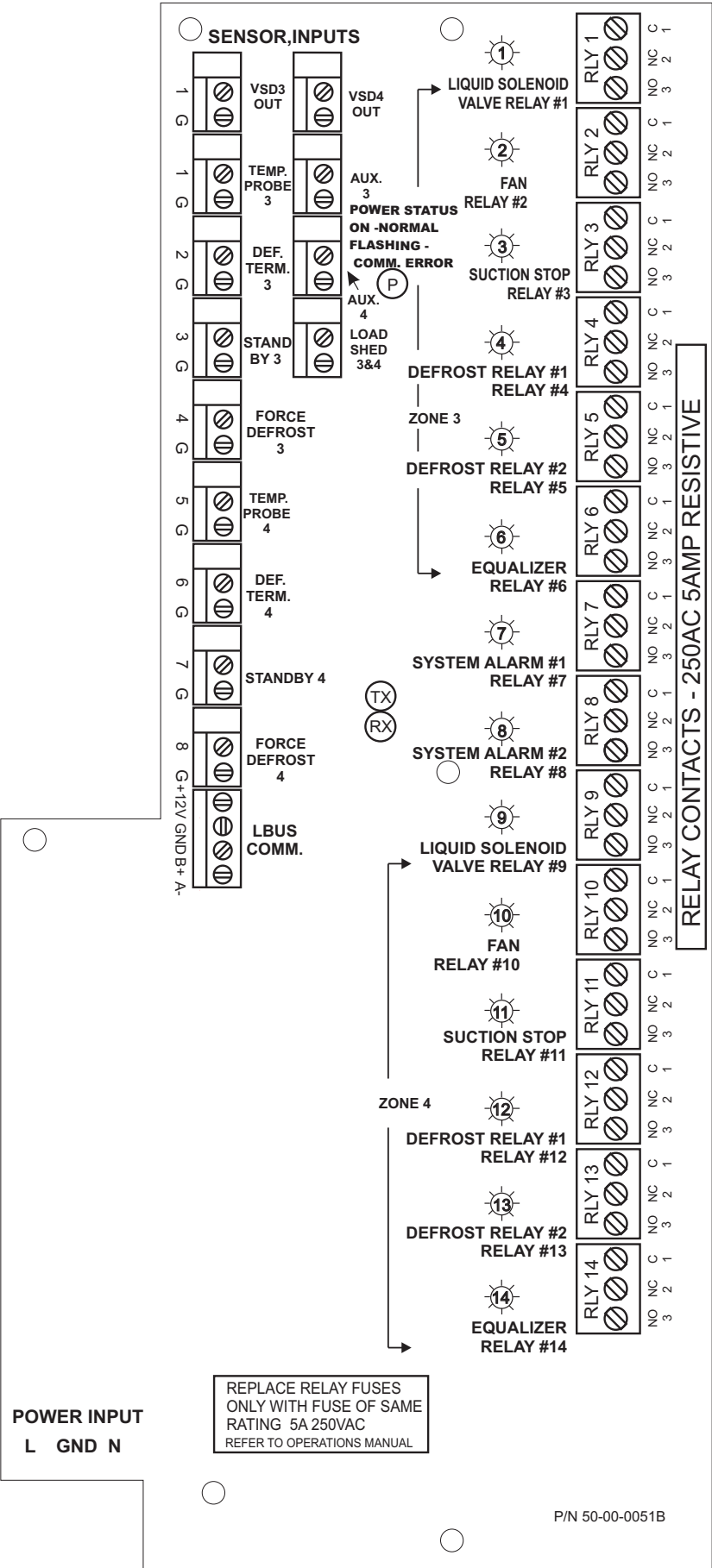
Press the **EXIT** key twice to leave the submenu and main menu of <CALIBRATION MENU>

Press the **DOWN** arrow for the next menu.

(End of <CALIBRATION MENU>)



WEC-2ZN INPUT/OUTPUT SILKSCREEN





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