

ACCESSORY KIT INSTALLATION INSTRUCTIONS

Smart Equipment™ Replacement Board Factory Configuration

General

This kit applies to the following unit control boards (UCB).

- 1-stage UCB without comm card: S1-33103668040, SE-SPU1001-7
- 1-stage UCB with comm card: S1-33103669040, SE-SPU1011-7
- 2-stage UCB without comm card: S1-33103670040, SE-SPU1002-7
- 2-stage UCB with comm card: S1-33103671040, SE-SPU-1012-7

The following sections describe how to configure the replacement board. You can select one of the following options.

- Install the current parameters from the unit, see page 1.
- Install the factory configuration file, see page 2.
- Manually set the parameters, see page 3.

Configuring the replacement board

Installing the current parameters from the unit

If the old UCB still functions and you do not have a copy of the UCB parameters, proceed to *Backing up the parameters*.

If you previously backed up the parameters in the control board, proceed to *Restoring the parameters*.

Backing up the parameters

You require a flash drive to back up the parameters. You must format the flash drive with the FAT format, see page 4.

1. Connect the USB flash drive to the USB port on the UCB.
2. When **USB OK** appears on the LCD screen, use the joystick on the UCB to select **Update** and press ENTER.
3. Select **Backup** and press ENTER. When **BKP:OK** appears on the LCD screen, press CANCEL to go back to the main menu.

Proceed to *Restoring the parameters*.

Restoring the parameters

1. Connect the USB flash drive to the USB port on the UCB.
2. When **USB OK** appears on the LCD screen, use the joystick on the UCB to select **Update** and press ENTER.
3. Select **Restore** and press ENTER.
4. If you want to restore the parameters from an old UCB, select **serialflash/BackupConfig.csv** and press ENTER.
If you want to restore the factory configuration file, select **[unit serial number].csv** and press ENTER.

When **Confirm?** appears on the LCD screen, press ENTER.

The LCD screen displays **RTR: OK** and reboots. When the startup timer ends, the configuration is restored.

Installing the factory configuration

Use the factory configuration file for the replacement Smart Equipment™ UCB if you do not have a copy of the UCB parameters and the old UCB does not function.

You require a flash drive to install the factory configuration. You must format the flash drive with the FAT format, see page 4.

Downloading the factory configuration file

1. Log in to HVAC Navigator.
2. Select **Applications** then **Browse**.
3. Under All Browse Applications, select **UPGNet**.
4. From the **Home** menu select **Product Center**.
5. On the **Product Center** page, select **Smart Search V2**.
6. In the **Item Number Search** field, enter the serial number of your unit and press **Search**.
7. In the **Search Results** pane, select the Material number.
8. In the **Material Detail** pane, select **SSE Control Board**.
9. Follow the instructions on the screen to download the SSE Control Board settings for your unit.
10. In the pop-up window, select **Save as** and save the file onto your flash drive. Do not change the name of the file.

To install the factory configuration file, complete the steps in *Restoring the parameters* on page 1.

The screenshot shows the HVAC Navigator interface. On the left is a navigation menu with 'Home' selected. The main area has a search bar with 'N1B5462211' entered. Below the search bar, the 'Search Results - (N1B5462211)' pane is active, showing a table with one result:

Serial #	Material	Material Description	Status
N1B5462211	ZJ120N15N4AAA7	10T_G/E_460-3-60_R410A_12.2E	Obsolete

Figure 1 - Search Results pane

The screenshot shows the 'Material Detail' pane for material N1B5462211. The material description is '10T_G/E_460-3-60_R410A_12.2E' and its status is 'Obsolete'. A navigation bar at the bottom includes tabs for 'Material Detail', 'Warranty', 'Parts List', 'Specifications', 'Related Materials', 'Supersedes', 'Documents', 'Where Used', and 'SSE Control Board', with 'SSE Control Board' being the active tab. Below the tabs, a message states: 'Click here to download the SSE Control Board settings file for this unit'.

Figure 2 - Material Detail pane

Manually setting the UCB parameters

Install the replacement board into the unit then program the parameters required for your specific application.

If the unit is controlled using a standard thermostat and it is not connected to a network, the number of configurable parameters are less than 15. Manually setting the parameters requires less than 5 minutes to complete.

If you have a VAV unit, heat pump unit, or specialized accessory functions such as hot gas reheat, CO² sensors, or power exhaust, you must set the parameters related to those functions.

The following table lists the parameters that you must check and set on a replacement board.

Note: Depending on the configuration of your unit you may need to set other parameters as well.

Table 1: UCB parameters to check and set

SSE parameters	SSE and MAP Gateway path	BACnet point	Setting value
Occupancy mode	Commission > Standard > OccMode	29518	Set to External if you use the occ terminal for the economizer minimum position
Cooling enabled	Commission > Standard > Clg-En	29575	Yes or No
Heating enabled	Commission > Standard > Htg-En	29707	Yes or No
Economizer enabled	Commission > Standard > Econ-En	29747	Yes or No
Thermostat only	Commission > Standard > Tstat-Only	29514	Yes or No
Number of cooling stages	Commission > Standard > #ClgStgs	29576	1 to 4
Number of heating stages	Commission > Standard > #HtgStgs	29731	1 to 3
Fan ON delay heat	Details > Fan > Setup > FanOnDlyHeat	29560	0 to 30 second timer. The value must be 0 for electric heat.
OAT cooling lockout enable	Commission > Standard > ClgOATCutout-En	29581	Yes or No
OAT cooling lockout setpoint	Commission > Standard > ClgOATCutout	29582	0 to 100 degrees
Supply air cool limit enable	Commission > Standard > SATCoolLimit-En	29590	Yes or No
Supply air cool limit setpoint	Commission > Standard > SATCoolLimit-Sp	29591	40 to 65 degrees
Heating OAT cutout setpoint	Details > Heating > Setup > HtgOATCutout-Sp	29711	0 to 100 degrees
Supply air heating limit enabled	Details > Heating > Setup > SATHtgLimit-En	29709	Yes or No
Supply air heating limit setpoint	Details > Heating > Setup > SATHtgLimit-Sp	29710	100 degree to 180 degrees
Economizer minimum position	Commission > Standard > Econ-MinPos	29759	Percentage open setpoint

CAUTION

SSE boards from Source 1 come with the OccMode parameter set to Schedule. This runs the unit off the internal schedule.

If you use a thermostat-only control or a building automation system, change this to External.

To view the full Smart Equipment™ UCB menu, see page 5.

Checking the format of your flash drive

1. In the **Computer** window, right click on your **Removable Disk** and select **Format**.
2. In the **Format Removable Disk** window, check the option in the **File system** menu
3. If the file system displayed is not FAT, in the menu select **FAT** then select **Start**.

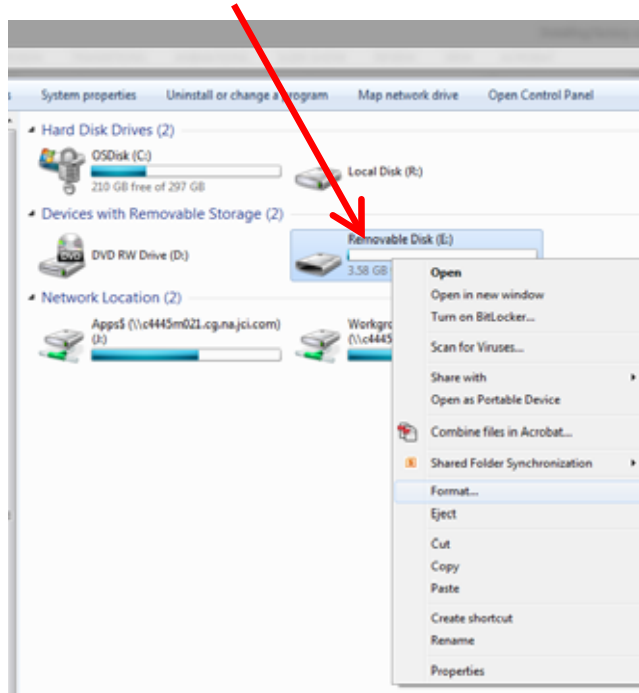


Figure 3 - Removable Disk menu

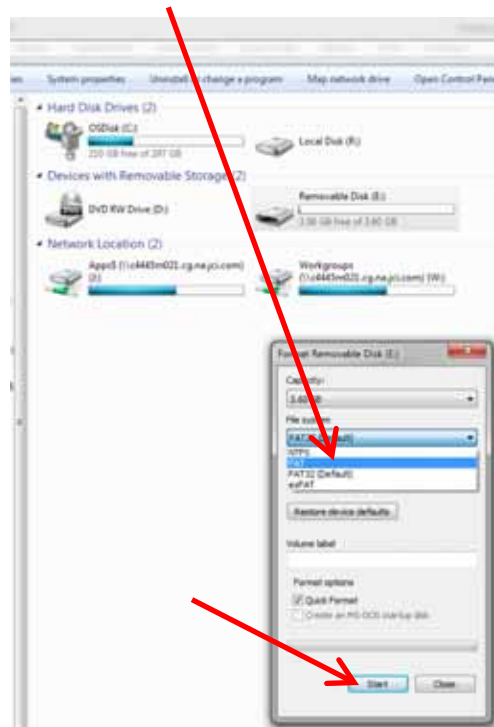
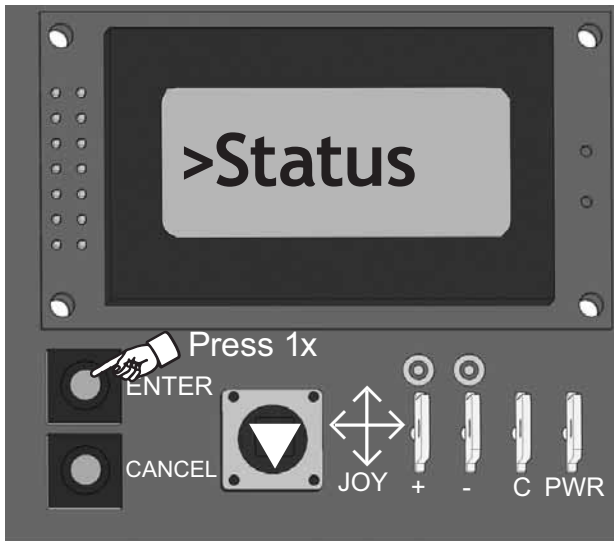


Figure 4 - File system menu

SE UCB DISPLAY MENU GUIDE 4.0



MENU	Status	
SUB MENU	Thermostat	
Y1-TSTAT	OFF	(24VAC INPUT TO Y1 TERM)
Y2-TSTAT	OFF	(24VAC INPUT TO Y2 TERM)
Y3-TSTAT	OFF	(24VAC INPUT TO Y3 TERM)
Y4-TSTAT	OFF	(24VAC INPUT TO Y4 TERM)
WI-TSTAT	OFF	(24VAC INPUT TO WI TERM)
W2-TSTAT	OFF	(24VAC INPUT TO W2 TERM)
W3-TSTAT	OFF	(24VAC INPUT TO W3 TERM)
G-TSTAT	OFF	(24VAC INPUT TO G TERM)
Occ-TSTAT	On	(T-STAT INPUT ONLY)

MENU	Status	
SUB MENU	SmokeCtrl	
OPRPURGECMD	FALSE	(ACTIVEPURGECMD)
PURGECMDSRC	RATEMP	(PURGECMDSOURCE)
PURGE	FALSE	(PURGE INPUT STATUS)
NETPURGE	FALSE	(PURGECOMMANDSTATUS)
SD	NORMAL	(SD 24 VAC INPUT STATUS)

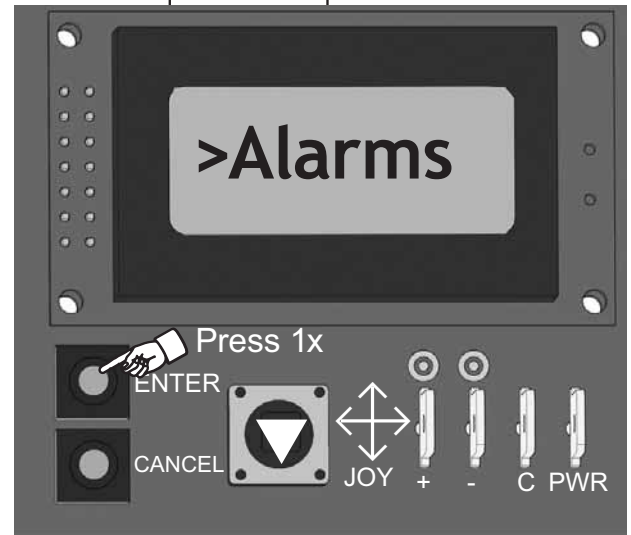
- ▼▲◀▶ Joystick navigation
- ☞ Press Enter 1 time
- ☞ ▼ Press Enter Scroll Down Press Cancel to return to Previous Menu



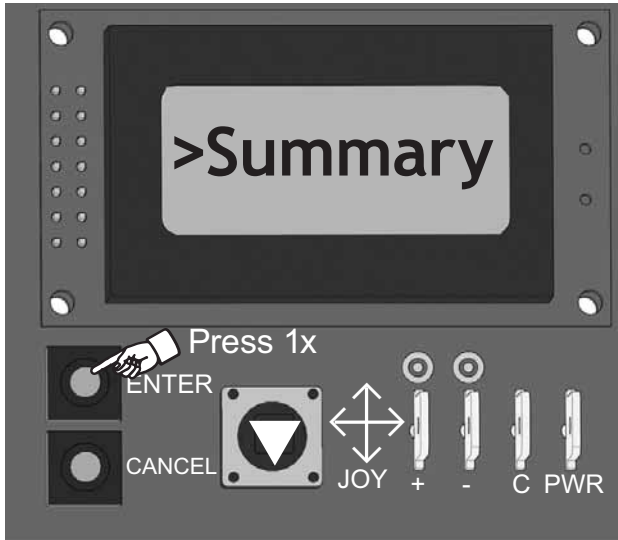
Legend	
Default settings in Bold	UCB CONDITIONAL PARAMETER
ECONOMIZER BOARD PRESENCE	ECONOMIZER BOARD PRESENCE + ANOTHER CONDITION

MENU	Status	
SUB MENU	▼Status	
UNIT-S	IDLE	(UNIT STATUS)
ECON-S	Disabled	(ECONOMIZER STATUS)
EXF-S	OFF-IDLE	(EXHAUST FAN STATUS)
FAN-S	OFF-IDLE	(FAN STATUS)
HGR-S	OFF-IDLE	(HOT GAS REHEAT STATUS)
CLG-S	OFF-IDLE	(COOLING STATUS)
DFS	NORMAL	(DIRTY FILTER SWITCH)
UCB24VAC ForOUTP	.3VAC	(UCB 24VAC INPUT)

MENU	Status	
SUB MENU	▼SysCntlrs	
ECONCNTLR	NOT PRESENT	(ECON BRD COMM STATUS)
4STGCNTLR	NOT PRESENT	(FC BUS BACNET NETWORK ADDRESS)
FDDMCNTLR	NOT PRESENT	(REFR CIRC 1-2 STATUS)
FDDSCNTLR	NOT PRESENT	(REFR CIRC 3-4 STATUS)



MENU	▼Alarms	
No EVENTS	(NO ACTIVE ALARM)	
ALARM DESCRIPTION	(MOST RECENT ALARM)	
ALARM DESCRIPTION	(2ND MOST RECENT ALARM)	
ALARM DESCRIPTION	(3RD MOST RECENT ALARM)	
ALARM DESCRIPTION	(4TH MOST RECENT ALARM)	
ALARM DESCRIPTION	(5TH MOST RECENT ALARM)	



MENU	▼Summary	
SUB MENU	↻Sensors	
SUB MENU	↻Operational Mode	

OPROAT	73.0 F	(OPERATIONAL OUTDOOR AIR TEMPERATURE)
OPRST	73.0 F	(SPACE TEMPERATURE IN USE)
OPRSSO	.0 F	(SPACE SETPT OFFSET IN USE)
OPRSH	49.6 %H	(SPACE HUMIDITY IN USE)
OPROAH	19%H	(OA HUMIDITY IN USE)
OPRIAQ	477PPM	(IAQ IN USE)
OPROAQ	990PPM	(OUTDOORAIRQUALITY IN USE)
OPRPURGECMD	FALSE	(ACTIVEPURGECMD)

MENU	▼Summary	
SUB MENU	↻Sensors	
SUB MENU	▼Sensors	

SAT	(60.7 F)	(S A TEMP THERMISTER INPUT)
RAT	(73.0 F)	(R A TEMP THERMISTER INPUT)
OAT	73.0 F	(UCB OAT THERMISTORINPUT)
OATSrc	LOCAL INPUT	(OUTDOORAIRTEMP SOURCE)
ST	69.9 F	(SPACE TEMPERATURE INPUT)
STSrc	NETWORK SENSOR	(SPACE TEMPERATURE SOURCE)
STALARMOFFSET	(5 F)	(SPACE TEMPERATURE ALARM SETPOINT OFFSET)
STALARMDELAY	(60MIN)	(SPACE TEMPERATURE ALARM TIME DELAY)
SSO	.0 F	(SPACE TEMP SETPOINT OFFSET INPUT)
SSOSrc	NETWORK SENSOR	(SPACE TEMPERATURE SETPOINT OFFSET SOURCE)

MENU	▼Summary	
SUB MENU	↻▼Sensors	
SUB MENU	▼Sensors	

SSORANGE	(3.0 F)	(SPACE TEMPERATURE SETPOINT OFFSET RANGE)
RAH	79.4 %H	(SPACE HUMIDITY RAH INPUT)
SHSrc	LOCAL INPUT	(SPACE HUMIDITY SOURCE)
OAH	50.2 %H	(OUTDOOR AIR HUMIDITY INPUT)
OAHSrc	LOCAL INPUT	(OUTDOOR AIR HUMIDITY SOURCE)
IAQ	477PPM	(IAQ 0-10 VDC INPUT)
IAQSrc	LOCAL INPUT	(INDOOR AIR QUALITY SOURCE)
OAQ	477PPM	(OAQ 0-10VDC INPUT)
OAQSrc	LOCAL INPUT	(OUTDOOR AIR QUALITY SOURCE)
PURGECMDSrc	RATEMP	(PURGECMDSOURCE)
SAH	49%H	(SAH 0-10 VDCINPUT)
MAT	70 F	(MIXED AIR TEMPERATURE)
BLDGPRES	.095"/W	(BUILDING STATIC PRESSURE)
DctPrs	1.50"/W	(DUCTPRES 0-5VDC INPUT)

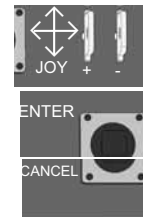
MENU	▼Summary	
SUB MENU	▼Unit	

NAME	RTUxxxx	(14 CHARACTER MAX)
MODEL#	RTUxxxxx	(14 CHARACTER MAX)
SERIAL#	DEFAULT_SERIAL	(14 CHARACTER MAX)
MODELNAME		(MODEL NAME)
UNIT-S	IDLE	(UNIT STATUS)
UNITEN	Enable	(UNIT ENABLE)
HDWRRESET	No	(HARDWARE RESET)
RESETLO	Off	(RESET LOCKOUTS)

▼▲◀▶ Joystick navigation

↻ Press Enter 1 time

↻▼ Press Enter Scroll Down
Press Cancel to return to Previous Menu



Legend	
Default settings in Bold	UCB CONDITIONAL PARAMETER
ECONOMIZER BOARD PRESENCE	ECONOMIZER BOARD PRESENCE + ANOTHER CONDITION



MENU	▼Commission	
SUB MENU	↻ Quick Start ↻	
#CLGStGS	4	NUMBER OF COOLING STAGES INSTALLED
#HTGStGS	3	NUMBER OF HEATING STAGES INSTALLED
#HTPUMPStGS	0	NUMBER OF HEAT PUMP STAGES INSTALLED
#REFRIGSYS	4	NUMBER OF REFRIG SYSTEMS INSTALLED
FANCTL-TYPE	Single Speed	FAN CONTROL TYPE
TSTAT-ONLY	Yes	THERMOSTAT ONLY CONTROL ENABLED
FANONOcc	Yes	CONTINUOUS FAN OPERATION IN OCCUPIED MODE
ECON-MINPos	%	ECONOMIZER MINIMUM POSITION SETPOINT
SAT	DEG F	SUPPLY AIR TEMPERATURE
RAT	DEG F	RETURN AIR TEMPERATURE
OAT	DEG F	OUTDOOR AIR TEMPERATURE INPUT
CLG-S	OFF-IDLE	COOLING STATUS
HTG-S	OFF-IDLE	HEATING STATUS
CLG-EN	Yes	COOLING MODE ENABLED FOR OPERATION
UNIQUE EQUIPMENT IDENTIFIER	Standard	UNIQUE EQUIPMENT IDENTIFIER
MENU	▼Commission	
SUB MENU	↻ Standard ↻	
OccMode	Schedule	OCCUPANCY MODE

MENU	▼Commission	
SUB MENU	↻ Standard ↻	
TSTAT-ONLY	Yes	(T-STAT INPUT ONLY)
CLG-EN	Yes	(COOLING ENABLED/DISABLED)
#CLGStGS	4	(COOLING ENABLED/DISABLED)
HTG-EN	Yes	(HEATING ENABLED/DISABLED)
#HTGStGS	3	(NUMBER OF HEATING STAGES INSTALLED)
ECON-EN	Yes	(PERMIT FREE COOLING OPERATION)
ECON-MINPos	20%	(OccEconoMINPos)
LOWSPEEDFAN-MINPos	25%	(AI-IN 0-10VDC INPUT)
FANONOcc	Yes	(CV CONSTANTFANOccUPIED MODE)
SATCoOLLIMIT-EN	Yes	(ENABLE SAT LIMIT)
SATCoOLLIMIT-SP	50 F	(SAT LIMIT SETPT)
CLGOATCUTOUT-EN	Yes	(LOWAMBComp LO)
CLGOATCUTOUT	45 F	(LoAMBCompLO STPT)
UNIQUE EQUIPMENT IDENTIFIER	Standard	UNIQUE EQUIPMENT IDENTIFIER

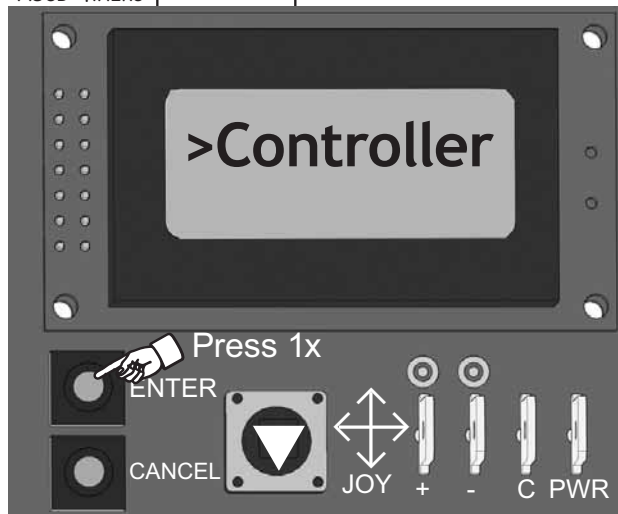
MENU	▼Commission	
SUB MENU	↻ ▼Options ↻	
FANCTL-TYPE	Single Speed	(ID BLOWER TYPE)
ExFTYPE	None	(POWER EXH FAN MODE SELECTION)
#REFRIGSYS	4	(#REFRIG CIRCUITS)
LOWAMB-EN	Yes	(LOW AMBIENT ENABLED)
LEADLAG-EN	No	(EQUALCOMPRUNTIME)
HGP-INST	No	(HOT GAS BYPASS INSTALLED)
HTG-EN	Yes	(HEATING ENABLED/DISABLED)
HTG-TYPE	Staged	(HEATING CONTROL METHOD)
SATHTGLIMIT-EN	Yes	SAT AIR TEMP LIMIT FOR HEATING ENABLED
SATHTGLIMIT-SP	140 F	SAT AIR TEMP LIMIT FOR HEATING SETPOINT
HTGOATCUT-OUT-SP	75 F	OUTDOOR AIR TEMP HEATING CUT-OUT SETPOINT
APSSetUP	None	AIR PROVING SWITCH SETUP
DFSINST	Yes	DIRTY FILTER SWITCH INSTALLED
DVENT-MODE	Yes	DEMAND VENTILATION MODE OF OPERATION
HGR-EN	No	HOT GAS REHEAT ENABLED FOR OPERATION
MORNW-EN	No	MORNING WARMUP ENABLED

MENU	▼Commission	
SUB MENU	↔▼Options↔	
#HTPUMPSTGS	0	NUMBER OF HEAT PUMP STAGES INSTALLED
LOWAMBANPRE-RUNCOOL	60sec	LOW AMBIENT FAN PRE-RUN TIME FOR COOLING
PIDTUNRST	False	PID TUNING RESET
LOWAMBSTART	Yes	LOW AMBIENT START
SZVAVEN	OFF	SZ VAV ENABLED
NETOccTIME-OUTEN	Disabled	NETWORK OCCUPANCY TIMEOUT ENABLE
NETOccTIMEOUT-TIME	15min	NETWORK OCCUPANCY TIMEOUT TIME
PRESSURIZENOT-PURGE	No	PRESSURIZE INSTEAD OF PURGE
COOLDURING-HEATLIMIT	No	COOLING ALLOWED DURING HEAT LIMIT
FDDALARMEN	Enable	FDD ALARM ENABLE

MENU	▼Commission	
SUB MENU	↔▼Network Setup↔	
FcBusMode	WIRED	(FC BUS COMM MODE)
ADDRESS	4	(FCBUSBACNETNETWORKADDRESS)
DEVICEID	I	(DEVICE OID)
BAUDRATE	Auto	(FC BUS BAUD RATE IN USE)
DEVNAME	UCBAPP	(FCBUSBACNETNTWRKNAME)
ENCODETYPE	ANSI X3.4 (US-ASCII)	BACNET ENCODING TYPE

MENU	▼Commission	
SUB MENU	↔▼Commissioning Mode↔	
COMMISSIONING MODE	ENABLE	(COMMISSIONING MODE)
COMMISHTIMEREMAINING	MINUTES	(COMMISSIONING TIME REMAINING)
EXTENDCOMMISHTIME	Yes	(EXTEND COMMISSIONING TIME)
UNITEN	SHUTDOWN	(UNIT ENABLE)
FAN	ON	(SUPPLY FAN COMMAND)
FANVFD	%	(FAN % COMMAND)
C1	ON	(COMPRESSOR STAGE COMMAND 1)
C2	ON	(COMPRESSOR STAGE COMMAND 2)
C3	ON	(COMPRESSOR STAGE COMMAND 3)
C4	ON	(COMPRESSOR STAGE COMMAND 4)
CN-FAN	ON	(CONDENSER FAN 1)
CF2	ON	(CONDENSER FAN 2)
HI	ON	(HEATING STAGE COMMAND 1)

MENU	▼Commission	
SUB MENU	↔▼Commissioning Mode↔	
H2	ON	(HEATING STAGE COMMAND 2)
H3	ON	(HEATING STAGE COMMAND 3)
HGR	%	(HOT GAS REHEAT)
HOT GAS REHEAT BLEED VALVE COMMAND	CLOSE	(HOT GAS REHEAT BLEED VALVE COMMAND)
ECON	%	(ECONOMIZER DAMPER % COMMAND)
ExFANVFD	%	(EXHAUST FAN VFD % COMMAND)
ExFAN	ON	(EXHAUST FAN COMMAND)
EAD-O	%	(EXHAUST DAMPER % COMMAND)
CANCEL ASCD TIMERS	No	(CANCEL ASCD TIMERS)



MENU	▼Controller	
SUB MENU	↔▼Network↔	
DEVNAME	UCBAPP	(FC BUS BACNET NETWORK NAME)
ADDRESS	4	(FC BUS BACNET NETWORK ADDRESS)
TIMEZONE	Central	
DESCRIPT		
COMM-S	WAITING FOR POLL	(FC BUS COMM STATUS)
FcBusMode	WIRED	(FC BUS COMM MODE)
OPRBAUDRATE	AUTO	(FC BUS BAUD RATE TO BE USED)
BAUDRATE	Auto	(FC BUS BAUD RATE IN USE)
DEVICEID	I	(DEVICE OID)
LANGUAGE	English	
UNITS	IP	(UNITS OF MEASURE TO BE USED)

MENU	▼Controller	
SUB MENU	↻▼Network↻	
#NETSENSORS	1	(NUMBER OF NETWORK SENSORS ONLINE)
RELEARN	FALSE	(RELEARN SYSTEM)
ENCODETYPE	ISO 10646 (UCS-2)	BACNET ENCODING TYPE

MENU	▼Controller	
SUB MENU	↻Firm↻	
SUB MENU	↻UCB↻	
FIRM-S	FIRMWARE VERSIONS OK	(FIRMWARE STATUS)
FIRMVER	4.0.0.XXXX	(FIRMWARE VERSION)
UCBMAINVER	4.0.0.XXXX	(FIRMWARE REVISION)
UCBAPPVER	4.0.0.XXXX	(SOFTWARE APP REV)
UCBHARDVER	001	(HARDWARE REVISION)

MENU	▼Controller	
SUB MENU	↻Firm↻	
SUB MENU	↻Econ↻	
ECONMAINVER	4.0.0.XXXX	(FIRMWARE REVISION)
ECONAPPVER	1223_2017.9.6.255	(SOFTWARE APP REV)
ECONHARDVER	001	(HARDWARE REVISION)

MENU	▼Controller	
SUB MENU	↻Firm↻	
SUB MENU	↻4 Stage↻	
4STGMAINVER	4.0.0.XXXX	(FIRMWARE REVISION)
4STGAPPVER	1223_2017.9.6.255	(SOFTWARE APP REV)
4STGHARDVER	001	(HARDWARE REVISION)

MENU	▼Controller	
SUB MENU	↻Firm↻	
SUB MENU	↻FDD Master↻	
FDDMAINVER	4.0.0.XXXX	(FIRMWARE REVISION)
FDDAPPVER	1223_2017.9.6.255	(SOFTWARE APP REV)
FDDHARDVER	001	(HARDWARE REVISION)

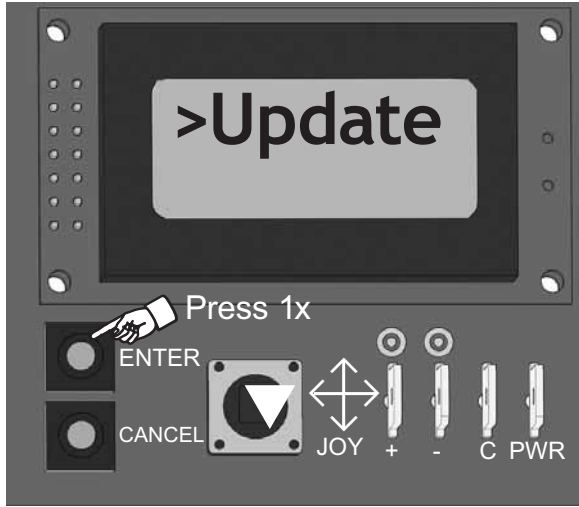
MENU	▼Controller	
SUB MENU	↻Firm↻	
SUB MENU	↻FDD Slave↻	
FDDMAINVER	4.0.0.XXXX	(FIRMWARE REVISION)
FDDAPPVER	1223_2017.9.6.255	(SOFTWARE APP REV)
FDDHARDVER	001	(HARDWARE REVISION)

MENU	▼Controller	
SUB MENU	↻▼NetworkInputs↻	
NETST		(FC BUS SPACE TEMP)
NETSSO		(FC BUSSPACESETPTOFFSET)
NETSH		(FC BUSSPACEHUMIDITY)
NETOcc	NOT SET	(FC BUSOCCUPANCYSTATUS)
NETTEMPOcc	FALSE	(TEMPOccCOMMAND)
NETIAQ		(FC BUS IAQ VALUE)
NETFANREQ		(FC BUSFANON REQST)
NETOAT		(FC BUS OA TEMP)
NETOAH		(FC BUS OA HUMIDITY)
NETOAQ		(FC BUS OA QUALITY)
NETPURGE		(FC BUSPURGE COMAND)
DIRLOADSHD	Yes/No	(DIRECT LOADSHED)
REDLINE	Yes/No	(REDLINE)

MENU	▼Controller	
SUB MENU	↻▼FDD↻	
UNITTYPE		
EER		
SUBCOOLGOAL		
REFRIGTYPE		
HISIDEPORTLOC		
EVAPCOIL-TYPE		
CONDCOIL-TYPE		
INMETERDEV-TYPE		
OUTMETERDEV-TYPE		
UNITCAP		
FANPOWER		
SUPERHEATGOAL		
ALTITUDE		

MENU	▼Controller	
SUB MENU	↻▼Time↻	
TIME_ZONE	Central	
DAYLIGHTSAV	False	
TIMEFORMAT	False	

MENU	▼Controller	
SUB MENU	↻▼Description↻	
CNTRLTYPE	CV	(ROOFTOP CONTROLLER TYPE)
EQUIPTYPE	RTU	(ROOFTOP EQUIPMENT TYPE)



MENU	▼Update
SUB MENU	↵View Ver↵
4.0.0.XXXX	FIRMWARE OK

MENU	▼Update
SUB MENU	↵▼LoadFirm↵
No PACKAGE PRESENT	ERROR USB W/FIRMWARE MUST BE PRESENT

MENU	▼Update
SUB MENU	↵▼Backup↵
BKP:WAIT	BCFG 0%

MENU	▼Update
SUB MENU	↵▼Restore↵

>SERIALFLASH/BACKUPCONFIG	
MENU	▼Update
SUB MENU	↵▼Full Clone↵

>SERIALFLASH/BACKUPCONFIG	
MENU	▼Update
SUB MENU	↵▼Partial Clone↵

>SERIALFLASH/BACKUPCONFIG	
MENU	▼Update
SUB MENU	↵▼Factory Default↵

CONFIRM

MENU	▼Update	
SUB MENU	↵▼Time↵	
>HOUR	0	(0 through 23)
MINUTE	11	(0 through 59)
DAY	1	(1 through 31)
MONTH	1	(1 through 12)
YEAR	2000	(1900 through 2155)

MENU	▼Update
SUB MENU	↵▼Export Trend↵
>USB	Missing



MENU	▼Details
SUB MENU	↵OCC↵

OccMODE	External	OCCUPANCY MODE
OCC	UNOc- CUPIED	(OCCUPANCY INPUT)
OPROcc	UNOc- CUPIED	(OCCUPANCY STATUS)
OccSrc	LOCAL INPUT	(Occ/UNOcc STATUS SOURCE)
TEMPOcc	DISABLE	(TEMPORARY OCCUPANCY INPUT)
TEMPOccTIM- EOUT	120	(TEMPORARY OCCUPANCY TIME- OUT)
OFFDURUNOCC	No	(OFF DURING OCCUPIED)
OPTSTRT-EN	No	(OPTIMAL START ENABLED)
EARLYSTRTPE- RIOD	60min	(EARLY START PERIOD)
PREOccPUR- GEENA		(PRE OCCUPANCY PURGE ENABLE)
PREOccPURGE- TIME	60	(PRE OCCUPANCY PURGE TIME)
PREOccUP- SAT_SP	90	(PRE OCCUPANCY PURGE UPPER SETPOINT)
PREOccLOW- SAT_SP	45	(PRE OCCUPANCY PURGE LOWER SETPOINT)

Legend	
Default settings in Bold	UCB CONDITIONAL PARAMETER
ECONOMIZER BOARD PRESENCE	ECONOMIZER BOARD PRESENCE + ANOTHER CONDITION

MENU	▼Details	
SUB MENU	↶▼Clg	
SUB MENU	↶▼Setup↷	
CLG-EN	Yes	(COOLING ENABLED/DISABLED)
#CLGSTGS	1	(# OF COOLING STAGES)
#REFRIGSYS	4	(# OF REFRIG SYSTEMS)
CLGOcc-SP	72 F	(CV Occ COOLING SET POINT)
CLGUNocc-SP	85 F	(CV UNOcc COOLING SET POINT)
CI-EN	Yes	(CI 24VACOUTPUTENABLED)
C2-EN	Yes	(C2 24VAC OUTPUT ENABLED)
C3-EN	Yes	(C3 24VACOUTPUTENABLED)
C4-EN	Yes	(C4 24VACOUTPUTENABLED)
MINRTCOOLSTG	3min	(MINCOMPRUNTIME)
SZVAVCLGOcc-SP	False	(SZ VAV OCCUPIED COOLING SETPOINT)
SZVAVCLGUNocc-SP	False	(SZ VAV UNOCCUPIED COOLING SETPOINT)
COMMON-SP	False	(COMMON SETPOINT)
AUTO CHANGEOVER	False	(AUTO CHANGEOVER)
HEAT COOL SETPOINT MODE	False	(HEAT COOL SETPOINT MODE)
CLGADAPTUNEN	Yes	(COOLING AUTO TUNE ENABLE)
LOWAMB-EN	No	(LOW AMBIENT ENABLED)
LOWAMBI00N50FFSP	45 F	(LoAMB0PSETPt)
LEADLAG-EN	No	(EQUALCOMPRUNTIME)
CLGOATCUTOUT-EN	Yes	(LOWAMBComp LO)
CLGOATCUTOUT	45 F	(LoAMBCompLO STPt)
SATCOOLLIMIT-EN	Yes	(ENABLE SAT LIMIT)
SATCOOLLIMIT-SP	45 F	(SAT LIMIT SETPt)
HGP-INST	No	(HOT GAS BYPASS PRESENT)
FREEZE-SP	26.0 F	(FREEZE CONDITION SETPOINT)
PMP0UT-EN	Disable	(PUMP OUT ENABLE)
LOWAMBFANPRERUN-COOL	60sec	(LOW AMBIENT FAN PRE-RUN TIME FOR COOLING)
CLGMANUALTUNE	No	(COOLING MANUAL TUNING)
LOWAMBSTART	No	(LOW AMBIENT START)
4PIPEENA	No	(4 PIPE SPLIT ENABLE)

MENU	▼Details	
SUB MENU	↶▼Clg	
SUB MENU	↶▼Service	
SUB MENU	↶Unit↷	
STGCLGCmd	0%	(STAGED COOLING COMMAND)
OPRCVCLG-SP	72 F	(CV COOLING SET PT IN USE)
OPRVAVCLG-SP	FALSE	(VAV OPERATING COOLING SUPPLY AIR TEMP SETPOINT)
OPRSZVAVCLG-SP	FALSE	(SZ VAV OPERATING COOLING SETPOINT)
CLG-S	OFF-IDLE	(COOLING STATUS)
OPROAT	73.0 F	(OPERATIONAL OUTDOOR AIR TEMPERATURE)
OPRST	73.0 F	(SPACE TEMPERATURE IN USE)
RAT	73 F	(UCB RAT THERMISTOR INPUT)
ECON-FREE	No	(FREE COOLING AVAILABILITY)
SAT	60.7 F	(UCB SAT THERMISTOR INPUT)
Y1-TSTAT	OFF	(24VAC INPUT TO Y1 TERM)
Y2-TSTAT	OFF	(24VAC INPUT TO Y2 TERM)
Y3-TSTAT	OFF	(24VAC INPUT TO Y3 TERM)
Y4-TSTAT	OFF	(24VAC INPUT TO Y4 TERM)
CN-FAN	OFF	(CN-FAN 24 VAC OUTPUT)
CF2	OFF	(CF2 24 VAC OUTPUT)

MENU	▼Details	
SUB MENU	↶▼Clg	
SUB MENU	↶▼Service	
SUB MENU	↶▼Stage1↷	
CI-S	OFF - IDLE	(COMPRESSOR STAGE STATUS)
CI	OFF	(CI 24VACOUTPUTSTATUS)
CI0NTMR	180 SEC	(CIMINRUNTIMEREMAIN)
CIASC0TMR	300 SEC	(CI ASC TIMEREMAIN)
CI0RUNTIM	. 0 hr	(CI 0UTPTACCUMRUNTIME)
CI-EI	? %	(EFFICIENCY INDEX I)
CI-CI	? F	(CAPACITY INDEX I)
CI-CONDTEMP0VRAMB		(CONDENSING TEMP OVER AMBIENT I)
CI-EVAPTEMPVALUE		(EVAP TEMP VALUE CIRCUIT I)
CLGCKTTESTS-I		(COOLING CIRCUIT TEST STATUS)
CI-SUPERHEAT		(SUPERHEAT)
CI-SUBCOOL		(SUBCOOLING)

MENU	▼Details	
SUB MENU	↻▼Clg	
SUB MENU	↻▼Service	
SUB MENU	↻▼Stage 2↻	
C2-S	OFF - IDLE	(COMPRESSOR STAGE STATUS)
C2	OFF	(C2 24VAC OUTPUT STATUS)
C2ONTMR	180 sec	(C2 MINRUNTIMEREMAIN)
C2ASCDTMR	300 sec	(C2ASC TIMEREMAIN)
C2RUNTIM	.0 hr	(C2OUTPTACCUMRUNTIME)
C2-EI	? %	(EFFICIENCY INDEX 2)
C2-CI	? F	(CAPACITY INDEX 2)
C2-CONDTEMPOVRAMB	(CONDENSING TEMP OVER AMBIENT 2)	
C2-EVAPTEMPVALUE	(EVAP TEMP VALUE CIRCUIT 2)	
CLGCKTTESTS-2	(COOLING CIRCUIT TEST STATUS)	
C2-SUPERHEAT	(SUPERHEAT)	
C2-SUBCOOL	(SUBCOOLING)	

MENU	▼Details	
SUB MENU	↻▼Clg	
SUB MENU	↻▼Service	
SUB MENU	↻▼Stage 3↻	
C3-S	OFF - IDLE	(COMPRESSOR STAGE STATUS)
C3	OFF	(C3 24VACOUTPUTSTATUS)
C3ONTMR	180 sec	(C3MINRUNTIMEREMAIN)
C3ASCDTMR	300 sec	(C3 ASC TIMEREMAIN)
C3RUNTIM	.0 hr	(C3 OUTPTACCUMRUNTIME)
C3-EI	? %	(EFFICIENCY INDEX 3)
C3-CI	? F	(CAPACITY INDEX 3)
C3-CONDTEMPOVRAMB	(CONDENSING TEMP OVER AMBIENT 3)	
C3-EVAPTEMPVALUE	(EVAP TEMP VALUE CIRCUIT 3)	
CLGCKTTESTS-3	(COOLING CIRCUIT TEST STATUS)	
C3-SUPERHEAT	(SUPERHEAT)	
C3-SUBCOOL	(SUBCOOLING)	

MENU	▼Details	
SUB MENU	↻▼Clg	
SUB MENU	↻▼Service	
SUB MENU	↻▼Stage 4↻	
C4-S	OFF - IDLE	(COMPRESSOR STAGE STATUS)
C4	OFF	(C4 24VACOUTPUTSTATUS)
C4ONTMR	180 sec	(C4MINRUNTIMEREMAIN)
C4ASCDTMR	300 sec	(C4 ASC TIMEREMAIN)
C4RUNTIM	.0 hr	(C4 OUTPTACCUMRUNTIME)

MENU	▼Details	
SUB MENU	↻▼Clg	
SUB MENU	↻▼Service	
SUB MENU	↻▼Stage 4↻	
C4-EI	? %	(EFFICIENCY INDEX 4)
C4-CI	? F	(CAPACITY INDEX 4)
C4-CONDTEMPOVRAMB	(CONDENSING TEMP OVER AMBIENT 4)	
C4-EVAPTEMPVALUE	(EVAP TEMP VALUE CIRCUIT 4)	
CLGCKTTESTS-4	(COOLING CIRCUIT TEST STATUS)	
C4-SUPERHEAT	(SUPERHEAT)	
C4-SUBCOOL	(SUBCOOLING)	

MENU	▼Details	
SUB MENU	↻▼Clg	
SUB MENU	↻▼Sensors	
ECI	42 F	(ECI THERMISTOR INPUT)
CCI	96 F	(CCI THERMISTOR INPUT)
SLP-1		(SUCTION PRESSURE 1)
LLP-1		(LIQUID PRESSURE 1)
SLT-1		(SUCTION TEMPERATURE 1)
LLT-1		(LIQUID TEMPERATURE 1)
EC2	42 F	(EC2 THERMISTOR INPUT)
CC2	96 F	(CC2 THERMISTOR INPUT)
SLP-2		(SUCTION PRESSURE 2)
LLP-2		(LIQUID PRESSURE 2)
SLT-2		(SUCTION TEMPERATURE 2)
LLT-2		(LIQUID TEMPERATURE 2)
EC3	42 F	(EC3 THERMISTOR INPUT)
CC3	96 F	(CC3 THERMISTOR INPUT)
SLP-3		(SUCTION PRESSURE 3)
LLP-3		(LIQUID PRESSURE 3)
SLT-3		(SUCTION TEMPERATURE 3)
LLT-3		(LIQUID TEMPERATURE 3)
EC4	42 F	(EC4 THERMISTOR INPUT)
CC4	96 F	(CC4 THERMISTOR INPUT)
SLP-4		(SUCTION PRESSURE 4)
LLP-4		(LIQUID PRESSURE 4)
SLT-4		(SUCTION TEMPERATURE 4)
LLT-4		(LIQUID TEMPERATURE 4)

Legend	
Default settings in Bold	UCB CONDITIONAL PARAMETER
ECONOMIZER BOARD PRESENCE	ECONOMIZER BOARD PRESENCE + ANOTHER CONDITION

MENU	▼Details	
SUB MENU	☞▼Clg	
SUB MENU	☞▼Safeties☞	
HPSI	NORMAL	(HPSI 24VAC INPUT STATUS)
HPSI-LO	NORMAL	(HiPRESS1 SWITCH STATUS)
LPSI	NORMAL	(LPSI 24VAC INPUT STATUS)
LPSI-LO	NORMAL	(LoPRESS1 SWITCH STATUS)
FSI	NORMAL	(FREEZE PROTECT1 STATUS)
FSI-LO	NORMAL	(FREEZE PROTECT1 STATUS)
HPS2	NORMAL	(HPS2 24VAC INPUT STATUS)
HPS2-LO	NORMAL	(HiPRESS2 SWITCH STATUS)
LPS2	NORMAL	(LPS2 24VAC INPUT STATUS)
LPS2-LO	NORMAL	(LoPRESS2 SWITCH STATUS)
FS2	NORMAL	(FREEZE PROTECT2 STATUS)
FS2-LO	NORMAL	(FREEZE PROTECT2 STATUS)
HPS3	NORMAL	(HPS3 24VAC INPUT STATUS)
HPS3-LO	NORMAL	(HiPRESS3 SWITCH STATUS)
LPS3	NORMAL	(LPS3 34VAC INPUT STATUS)
LPS3-LO	NORMAL	(LoPRESS3 SWITCH STATUS)
FS3	NORMAL	(FREEZE PROTECT3 STATUS)
FS3-LO	NORMAL	(FREEZE PROTECT3 STATUS)
HPS4	NORMAL	(HPS4 44VAC INPUT STATUS)
HPS4-LO	NORMAL	(HiPRESS4 SWITCH STATUS)
LPS4	NORMAL	(LPS4 44VAC INPUT STATUS)
LPS4-LO	NORMAL	(LoPRESS4 SWITCH STATUS)
FS4	NORMAL	(FREEZE PROTECT4 STATUS)
FS4-LO	NORMAL	(FREEZE PROTECT4 STATUS)
MENU	▼Details	
SUB MENU	☞▼Clg	
SUB MENU	☞▼Misc☞	
MAXTEMPHUMS-POFF	3.0 F	(MAXIMUM TEMPERATURE / HUMIDITY SETPOINT OFFSET)
TEMPHUM-SP	50%H	(*EFFECTSOPRCLG-SP)
TEMPHUMC-TRL-EN	No	(CNTRLOPERENABLE)
OPRSH	49.6 %H	(SPACE HUMIDITY IN USE)
CLGOcc-SP	72 F	(CV - Occ COOLING SETPOINT)
OPRCVCLG-SP	72 F	(CV - OPERATING COOL SETPOINT)
SZVAVCLGO-cc-SP	DEG F	(SZ VAV OCCUPIED COOLING SETPOINT)
OPRSZVAV-CLG-SP	DEG F	(SZ VAV OPERATING COOLING SETPOINT)

MENU	▼Details	
SUB MENU	☞▼Clg	
SUB MENU	☞▼Misc☞	
COMMON-SP	DEG F	(COMMON SETPOINT)
AUTO CHANGE-OVER	DEG F	(AUTO CHANGEOVER)
TEMPHUMVALP-ERDEGOff	5%H	(TEMPERATURE / HUMIDITY VALUE PER DEGREE OFFSET)
MENU	▼Details	
SUB MENU	☞▼Htg	
SUB MENU	☞▼Setup☞	
HTG-EN	Yes	(HEATING OPER ENABLED)
#HTGSTGS	1	(# OF HEATING STAGES)
HTG-TYPE	Staged	(HEATINGCONTROLMETHOD)
CVHTgOcc-SP	68 F	(CV - Occ HEATING SETPOINT)
CVHTgUNocc-SP	68 F	(CV - UNOcc HEATING SETPOINT)
VAVHTgOcc-SP	DEG F	(VAV OCCUPIED HEATING SETPOINT)
VAVHTgUNocc-SP	DEG F	(VAV UNOCCUPIED HEATING SETPOINT)
SZVAVHTgOcc-SP	DEG F	(SZ VAV OCCUPIED HEATING SETPOINT)
SZVAVHTgUNocc-SP	DEG F	(SZ VAV UNOCCUPIED HEATING SETPOINT)
COMMON-SP	DEG F	(COMMON SETPOINT)
AUTO CHANGEOVER	DEG F	(AUTO CHANGEOVER)
HEAT COOL SETPOING MODE	HEAT	(HEATING AUTO TUNE ENABLE)
HTGADAPTUNEN	YES	(HEATING AUTO TUNE ENABLE)
SATHtGLIMIT-EN	YES	(SA HTGLIMITENABLED)
SATHtGLIMIT-SP	135 F	(SA HTGLIMITSETPT)
HTGOATCUTOUT-SP	75 F	(OUTDOOR AIR TEMP HEATING CUTOUT SETPOINT)
#GASVLVS	0	(#HTPMPSTGS = 0)
#LIMSWTCHS	1	(#HTPMPSTGS = 0)
LL_ENABLE	DISABLE	(LOW LIMIT ENABLE)
LL_UPSAT_SP	80 F	(LOW LIMIT UPPER SAT SETPOINT)
LL_LOW SAT_SP	80 F	(LOW LIMIT LOWER SAT SETPOINT)
HTGMANUALTUNE	No	(HEATING MANUAL TUNING)
COOLDURINGHEATLIMIT	No	(COOLING ALLOWED DURING HEAT LIMIT)

MENU	▼Details	
SUB MENU	↷▼Htg	
SUB MENU	↷▼Service↷	
STGHtgCMD	0%	(STAGED HEATING COMMAND)
CVOPRHtg-SP	68 F	(CV - OPERATING HEAT SET-POINT)
OPRSZ-VAVHtg-SP	DEG F	(SZ VAV OPERATING HEATING SETPOINT)
VAVO-PRHtg-SP	DEG F	(VAV OPERATING HEATING SETPOINT)
Htg-S	OFF-IDLE	(HEATING STATUS)
OPROAT	73.0 F	(OPERATIONAL OUTDOOR AIR TEMPERATURE)
OPRST	73.0 F	(SPACE TEMPERATURE IN USE)
RAT	70.4 F	(UCB RAT THERMISTOR INPUT)
WI-TSTAT	OFF	(24VAC INPUT TO WI TERM)
W2-TSTAT	OFF	(24VAC INPUT TO W2 TERM)
W3-TSTAT	OFF	(24VAC INPUT TO W3 TERM)
G-TSTAT	OFF	(24VAC INPUT TO G TERM)
HI-S	OFF-IDLE	(HEATING STAGE STATUS)
HI	OFF	(1ST STG HEAT OUTPUT STATUS)
H1ONTMR	0 SEC	(REMAINMINRUNTIME)
HIASCDTMR	0 SEC	(REMAIN ASCD TIME)
HIRUNTIM	.0 hr	(ACCUM HI RUNTIME)
H2	OFF	(2ND STG HEATINGOUTPUTSA-TUS)
H2-S	OFF-IDLE	(HEATING STAGE STATUS)
H2ONTMR	0 SEC	(REMAIN MIN RUNTIME)
H2ASCDTMR	0 SEC	(REMAIN ASCD TIME)
H2RUNTIM	.0 hr	(ACCUM H2 RUNTIME)
H3	OFF	(3RD STG HEATINGOUTPUTSA-TUS)
H3-S	OFF-IDLE	(HEATING STAGE STATUS)
H3ONTMR	0 SEC	(REMAIN MIN RUNTIME)
H3ASCDTMR	0 SEC	(REMAIN ASCD TIME)
H3RUNTIM	.0 hr	(ACCUM H3 RUNTIME)
MENU	▼Details	
SUB MENU	↷▼Htg	
SUB MENU	↷▼Safeties↷	
LIMIT	NORMAL	(LIMIT 24VAC INPUT STATUS)
LIMITLO	NORMAL	(HEAT LIMIT STATUS)
LIM2	NORMAL	(LIMIT 24VAC INPUT STATUS)
LIM2LO	NORMAL	(HEAT LIMIT STATUS)

MENU	▼Details	
SUB MENU	↷▼Htg	
SUB MENU	↷▼Safeties↷	
LIM3	NORMAL	(LIMIT 24VAC INPUT STATUS)
LIM3LO	NORMAL	(HEAT LIMIT STATUS)
MV	OFF	(GAS VALVE INPUT)
GV2	OFF	(GV2 PIN 24VAC INPUT STATUS)
GV3	OFF	(GV3,4 PIN 24VAC INPUT STATUS)
MENU	▼Details	
SUB MENU	↷▼Htg	
SUB MENU	↷▼Prop	
SUB MENU	↷Setup↷	
HYDHISA-SP	120 F	(HYD HI SAT SETPt)
HYDH2SA-SP	150 F	(HYD H2 SAT SETPt)
SATTEMPHYDHT-EN	No	No(HYDHTGSA TEMPER)
SATTEMPHYDHT-SP	40	(HYD HEAT TEMP SP)
HYDREVERSE	No	(MODHT 2-10VDC ACTION)
MENU	▼Details	
SUB MENU	↷▼Htg	
SUB MENU	↷▼Prop	
SUB MENU	↷▼Service↷	
CVHtgOcc-SP	68 F	(CV Occ HEATING SET POINT)
CVHtgUn-occ-SP	60 F	(CV UNOcc COOLING SET POINT)
CVOPRHtg-SP	68 F	(CV HEATING SET PT IN USE)
VAVO-PRHtg-SP	68F	(VAV OPERATING HEAT SET-POINT)
OPRSZ-VAVHtg-SP	DEG F	(SZ VAV OPERATING HEATING SETPOINT)
OPR ST	73.0 F	(SPACE TEMPERATURE IN USE)
SAT	(60.7 F)	(S A TEMP THERMISTER INPUT)
WI-TSTAT	OFF	(24VAC INPUT TO WI TERM)
W2-TSTAT	OFF	(24VAC INPUT TO W2 TERM)
HWV	0%	(HWV VDC OUTPUT)
HYDREVERSE	No	(MODHT 2-10VDC ACTION)
FSHW	NORMAL	()
MENU	▼Details	
SUB MENU	↷▼Fan	
SUB MENU	↷Setup↷	
FANCTL-TYPE	Single Speed	(ID BLWR/UNIT OP MODE)
FANON Occ	Yes	(CV CONSTANT FAN IN OCCUPIED MODE)

MENU	▼Details	
SUB MENU	🔗▼Fan	
SUB MENU	🔗Setup🔗	
FANONDLYHEAT	30sec	(HEATFANONDELAY)
FANOFFDLYHEAT	60sec	(HEATFANOFFDELAY)
FANOFFSTARTHEAT	Yes	(FANOFF ATHEATSTART)
FANONDLYCOOL	0sec	(COOLFANONDELAY)
FANOFFDLYCOOL	30sec	(COOLFANOFFDELAY)
FAN ONLY-% CMD	50%	(CV IS FAN ONLY)
1CLGSTG-% CMD	70%	(CV IS 1 STG COOL)
2CLGSTG-% CMD	80%	(CV IS 2 STG COOL)
3CLGSTG-% CMDT	90%	(CV IS 3 STG COOL)
4CLGSTG-% CMD	100%	(CV IS 4 STG COOL)
1HTGSTG-%CMD	100%	(OCCUPIED: ONE STAGE OF HEAT % COMMAND)
2HTGSTG-%CMD	100%	(OCCUPIED: TWO STAGE OF HEAT % COMMAND)
3HTGSTG-%CMD	100%	(OCCUPIED: THREE STAGE OF HEAT % COMMAND)

MENU	▼Details	
SUB MENU	🔗Fan	
SUB MENU	🔗▼Service🔗	
DEHUM%CMD	%	(DEHUMIDIFICATION % COMMAND)
LOWAMBANPRE-RUNCOOL	SECONDS	(LOW AMBIENT FAN PRE-RUN TIME FOR COOLING)
LOWAMBANPRE-RUNCOOL	60sec	
APSSSETUP	None	(AIR PROVING SWITCH OPERATION)
DFS	NORMAL	(DFS 24VAC INPUT STATUS)
G-TSTAT	OFF	(24VAC INPUT TO G TERM)
FAN-S	OFF-IDLE	(FAN STATUS)
FAN	OFF	(FAN 24VAC OUTPUT STATUS)
FAN-RT	.0 hr	(ACCUMULATED FAN RUN-TIME)
OPRFANREQ	Off	(OPERATING FAN REQUEST)
FANREQSRC	LOCAL INPUT	(FAN REQUEST SOURCE)
APS	OFF	(APS INPUT STATUS)
FANOVERLOAD	NORMAL	(FANOVRIINPTSTATUS)
FANVDFLT	NORMAL	(FLT24VACINPTSTATUS)

MENU	▼Details	
SUB MENU	🔗▼Econ	
SUB MENU	🔗Setup🔗	
ECON-EN	Yes	(ECONOFREECOOLINGENABLE)
ECON-MINPOS	10%	(ECONOMIZER MINIMUM POSITION SETPOINT)
LOWSPEEDFAN-MINPOS	25%	(OccLoFANPos)
LOWAMB-MINPOS	0%v	(OccLoAMBMINPos)
LOWAMB-SP	0 F	(LoAMBMINPOSSSETPT)
FREECLG-SEL	Auto	(FRECLGCHNGOVRMETHOD)
FREECLG-MODE	DRY BULB	(CHNGOVRMODE)
ALLCOMPOFF-ECON	No	(ALL COMPRESSORS OFF IN FREE COOLING)
ECONOAT-SPEN	55 F	(DRYBLBCHGOVRSETPT)
ECONOAEATH-SP	27 B/#	(ENTHCNGOVRSETPT)
DVENT-MODE	Disable	(DMAND VENT MODE SELECT)
DVENTMAXECONPOS	50%	(MAX ECON POSITION)
DVENTIAQ-SP	1000ppm	(DEMAND VENT IAQ SETPT)
DVENTDIFF-SP	600ppm	(IAQ-OAQ DIFFERENCE-SETPT)
IAQRANGE	2000ppm	(ID SETPT W/CO2 SENSOR INST)
OAQRANGE	2000ppm	(OD SETPT W/CO2 SENSOR INST)
ECONLOAD-EN	No	(ECONLOADINGENABLED)
MOAFLW-SP	10CFM	(FRESH AIR INTAKE SETPOINT)
MOA-RANGE	10000CFM	(FRESH AIR INTAKE MAX SENSOR RANGE)
ECONMECHSTP	Option B	(ECON MECH SETUP)
ECONFLTDETECTEN	Disable	(ECON FAULT DETECTION EN)
CALFAULTDETECTEN	Disable	(CALIBRATION FAULT DETECT ENABLE)

MENU	▼Details	
SUB MENU	🔗▼Econ	
SUB MENU	🔗▼Service🔗	
CLG-S	OFF-IDLE	(COOLING STATUS)
ECON-S	DISABLED	
ECON-FREE	No	(FREECOOLING AVAILABLE)
ECON	0%	(ECON 2-10VDC OUTPUT STATUS)
SAT	60.7 F	(UCB SAT THERMISTORINPUT)
OPROAT	73.0 F	(OPERATIONAL OUTDOOR AIR TEMPERATURE)
OA-ENTH	20 B/#	(CALCOA ENTHALPYINPUT)

MENU	▼Details	
SUB MENU	↻▼Econ	
SUB MENU	↻▼Service↻	
RA-ENTH	20B/#	(RA ENTHALPY INPUT)
OPRIAQ	477PPM	(INDOOR AIR QUALITY INPUT)
OPROAQ	990PPM	(OUTDOORAIRQUALITY IN USE)
FR AIR	7940CFM	(FRESH AIR INTAKE ENABLE)
ECONDAMPPos	38	(AI-IN 0-10VDC INPUT)
ECONALRMDLY	600sec	(FDD ECON ALARM DELAY)
ECONPosERR	8%	(FDD ECON DAMPER ALLOW ERROR)
ECONMINERR	5%	(FDD DAMPER MIN Pos TOLERANCE)

MENU	▼Details	
SUB MENU	↻▼Dvent↻	
ECON-EN	Yes	(ECONOFREECOOLINGENABLE)
DVENT-MODE	Disabled	(DEMANDVENTIMODE)
DVENTMAXECONPos	50%	(IAQ Econ-MAXPos)
DVENTIAQ-SP	1000ppm	(OccIAQECONOPERSETPT)
DVENTDIFF-SP	600ppm	(Occ DIFF IAQ/OAQ SETPT)
IAQRANGE	2000ppm	(PPM@10VDCIAQ OUTPUT)
OAQRANGE	2000ppm	(PPM@10VDCOAQ OUTPUT)
OPRIAQ	477PPM	(IAQ 0-10VDCINPUT IN USE)
OPROAQ	990PPM	(OUTDOORAIRQUALITY IN USE)
ECONDAMPPos	38	(AI-IN 0-10VDC INPUT)

MENU	▼Details	
SUB MENU	↻▼AirMonStation↻	
ECON-EN	Yes	(ECONOFREECOOLINGENABLE)
FRAIR-EN	Disable	(FRESH AIR INTAKE ENABLE)
MOAFLW-SP	10CFM	(FRESH AIR INTAKE SETPOINT)
MOA-RANGE	10000CFM	(FRESH AIR INTAKE MAX SENSOR RANGE)
FR AIR	7953CFM	(FRESH AIR INTAKE ENABLE)
ECONDAMPPos	38	(AI-IN 0-10VDC INPUT)
CONTROL	40CFM	(FRESH AIR RANGE)

MENU	▼Details	
SUB MENU	↻▼PowerEx	
SUB MENU	↻Setup↻	
EXFTYPE	None	(PWREXFANMODESELECTION)
ECONDMPPosFANON	60%	(FANONPOSITION)
ECONDMPPosFANOFF	20%	(FANOFFPOSITION)
EXDMPPosFANON	80%	(FANONPOSITION)
EXDMPPosFANOFF	20%	(FANOFFPOSITION)

MENU	▼Details	
SUB MENU	↻▼PowerEx	
SUB MENU	↻Setup↻	
BLDG-SP	100"/w	(EXDMPRBLDGPRESETPT)
DCTPRS		(DUCT STATIC PRESSURE)

MENU	▼Details	
SUB MENU	↻▼PowerEx	
SUB MENU	↻▼Service↻	
EXF-S	OFF	
EXFAN	OFF	(EX-FAN 24vacOUTPUTSTATUS)
BLDGPREs	.164"/w	(BLDGPREs 0-5VDC INPUT)
EAD-O	0%	(EXVFD2-10VDCOUTPTSTATUS)
EXFANVFD	0%	(EX VFD2-10VDC OUTPUT)
EXFAN-RUNTIME	.0 hr	(24vacOUTPUTAccRUNTIME)
EXFANVFDFLT	NORMAL	(VFD FLT24vacINPUT)

MENU	▼Details	
SUB MENU	↻▼FanVFD	
SUB MENU	↻Setup↻	
FANCTL-TYPE	Single Speed	(UNITOPMODE)
DCTPRS-SP	1.50"/w	(VAV SUPPLYDUCTPRESS SETPOINT)
DCTSHUTDOWNSP	4.5"/w	(DUCTPRESSLIMIT)
SATUP-SP	60 Fc	(VAV Occ UPPRCOOLING SAT SETPT)
SATLo-SP	55 F	(VAV Occ LOWR COOLING SAT SETPT)
SATRst-SP	72 F	(VAV Occ COOL SAT RESET SETPT)
VAVCLGUNocc-SP	85 F	(FANCTL-TYPE = VARIABLE SPEED)
MORNW-EN	No	(VAVMORNWRMUPENABLE)
MORNWRAT-SP	71 F	(MORNWRMUPRA SETPT)
HTGOcc-EN	Yes	(VAV Occ HEATING ENABLED)
VAVHTGOcc-SP	85 F	(VAV Occ HEATING SETPOINT)
HTGUNocc-EN	No	(VAV UNOcc HEATING ENABLED)
VAVHTGUNocc-SP	60 F	(VAV UNOcc HTG SETPOINT)
MORNC-EN	No	(MORNING COOLDOWN ENABLED)
MORNCRAT-SP	74F	(MORNING COOLDOWN SP)
OPTSTRT-EN	No	(OPTIMAL START ENABLED)
EARLYSTRTPERIOD	60min	(EARLY START PERIOD)
DAP-MIN	in wc	(DISCHARGE AIR STATIC PRESSURE MINIMUM)

MENU	▼Details	
SUB MENU	↻▼FanVFD	
SUB MENU	↻Setup↻	
DAP-ALMDLY	SECONDS	(DISCHARGE AIR STATIC PRESSURE ALARM DELAY)
HtgOcc-EN	Yes	(VAV Occ HEATING ENABLED)
MENU	▼Details	
SUB MENU	↻▼FanVFD	
SUB MENU	↻▼Service↻	
FANVFD	0%	(VFD 2-10 VDC OUTPUT)
DCTPRS	1.50"/w	(DCT PRS 0-5VDCINPUT)
DctPrs-SP	1.5"/w	(DUCTPRESSLIMIT)
OPRVAVCLG-SP	DEG F	(VAV OPERATING COOLING SUPPLY AIR TEMP SETPOINT)
OPRSZVAVHTg-SP	DEG F	(SZ VAV OPERATING COOLING SETPOINT)
OPRVAVCLG-SP	55 F	(VAV COOLING SAT SETPT IN USE)
SAT	60.7 F	(UCB SAT THERMISTORINPUT)
STGCLGCMd	0%	(STAGED COOLING COMMAND)
CLG-S	YES	(COOLING STATUS)
ECON-FREE	No	(FREE COOLING AVAILABILITY)
CI	OFF	(UCB CI 24 VAC OUTPUT STATUS)
C2	OFF	(DEMAND VENT SET POINT)
C3	OFF	(4STG C3 24 VAC OUTPUT STATUS)
C4	OFF	(4STG C4 24 VAC OUTPUT STATUS)
VAVOPRHtg-SP	68 F	(VAV HEATING SETPT IN USE)
STGHTGCMd	0%	(STAGED HEATING COMMAND)
OPRST	73.0 F	(SPACE TEMPERATURE IN USE)
HTG-S	OFF-IDLE	(HEATING STATUS)
H1	off	(CV IS 1 STG HEAT)
H2	off	(CV IS 2 STG HEAT)
H3	off	(CV IS 3 STG HEAT)
VAV Box	OFF	(VAV Box)

MENU	▼Details	
SUB MENU	↻▼SZVAV	
SUB MENU	↻Setup↻	
SZVAVEN	No	(SINGLE ZONE VAV ENABLED)
SZVAVMINFANSPD	66%	(MINIMUM FAN SPEED)
SZVAVCLGOcc-SP	72 F	(SZ VAV Occ CLG SP)
SZVAVCLGUnocc-SP	85 F	(SZ VAV UNOCC CLG SP)
VAVHTgOcc-SP	68 F	(VAV - Occ HEATING SETPOINT)
VAVHTgUnocc-SP	60 F	(VAV UNOCC HEATING SETPT)
DATMAXHTgSP	105F	(DAT HEATING MAX SP)
DATSATSP	70F	(DAT SATISFIED SP)
SATUP-SP	54F	(VAV COOLING SUPPLY AIR TEMP UPPER SETPOINT)
SATLo-SP	54F	(VAV COOLING SUPPLY AIR TEMP LOWER SETPOINT)

MENU	▼Details	
SUB MENU	↻▼SZVAV	
SUB MENU	↻▼Service↻	
OPRSZVAV-CLG-SP	72 F	(SZ VAV OPERATING CLG SP)
OPRSZ-VAVHTg-SP	60 F	(SZ VAV OPERATING HEATING SETPOINT)
SZVAVCLGLD	0%	(SZ VAV COOLING LOAD)
SZVAVHTGLD		(SZ VAV HEATING LOAD)
OPRST	73.0 F	(SPACE TEMPERATURE IN USE)
SAT	60.7 F	(SAT THERMISTOR INPUT)
FANVFD	0%	(VFD 2-10VDC OUTPUT STATUS)
ECON	0%	(ECON 2-10 VDC OUTPUT STATUS)
CI	OFF	(1ST COOL 24 VAC OUTPUT)
C2	OFF	(2ND+ COOL 24 VAC OUTPUT)
C3	OFF	(3RD+ COOL 24 VAC OUTPUT)
C4	OFF	(4TH+ COOL 24 VAC OUTPUT)

MENU	▼Details	
SUB MENU	↻▼HGR	
MENU	↻Setup↻	
HGR-EN	No	(HOT GAS REHEAT ENABLED)
SATISFIEDDEHUM	FALSE	(DEHUMIDIFY IN SATISFIED)
HGRALT-EN	No	(HGR ALTERNATE ENABLED)
HGRALTWRITE	No	(HGR ALTERNATE WRITEABLE)
HGRHUM-SP	60DEGF	(HOT GAS REHEAT HUMIDITY SETPOINT)
HGRUNOCC-EN	Yes	(HGR UNOCC ENABLED)

MENU	▼Details	
SUB MENU	↻▼HGR	
MENU	↻Setup	
HGRUNoc-CHUM-SP	70DegF	(HGR UNOCC HUM SP)
HGR-DIFF	3%	(HGR HUMIDITY SETPOINT DIFFERENTIAL)
MODE		(AUX MODE)
USE DFS FOR DEHUM	Yes	(USE DFS FOR DEHUM)
SATUP-SP	Deg F	(VAV COOLING SUPPLY AIR TEMP UPPER SETPOINT)
SATLo-SP	Deg F	(VAV COOLING SUPPLY AIR TEMP LOWER SETPOINT)
SATRST-SP	Deg F	(VAV SUPPLY AIR TEMP RESET SETPOINT)
DEHUMEVAP-LOWSP	Deg F	(DEHUM EVAP LOW SETPOINT)
CLGOcc-SP	Deg F	(OCCUPIED COOLING SETPOINT)
DEHUM%CMD	%	(DEHUMIDIFICATION % COMMAND)
PROPORTIONAL MIN OUT VALUE	%	(PROPORTIONAL MIN OUT VALUE)
PROPORTIONAL MAX OUT VALUE	%	(PROPORTIONAL MAX OUT VALUE)
CONDAN2OAT-CUTOUTSP	Deg F	(CONDENSER FAN 2 OAT CUTOUT SETPOINT)
MODHGR-FULLOPENAL-LOWED	Yes	(MODULATING HGR VALVE FULL OPEN ALLOWED)
MENU	▼Details	
SUB MENU	↻▼HGR	
MENU	↻▼Service	
STGCLGCMDB	0%	(STAGED COOLING COMMAND)
OPRCVCLG-SP	72 F	(CV COOLING SET PT IN USE)
OPRST	73.0 F	(SPACE TEMPERATURE IN USE)
OPREVPTEMPSP	Deg F	(OPERATIONAL EVAP TEMPERATURE SP)
EVAPORATOR COIL TEMP	Deg F	(EVAPORATOR COIL TEMP)
HGRHUM-SP	60F	(HOT GAS REHEAT HUMIDITY SETPOINT)
OPRSH	49.6 %H	(SPACE HUMIDITY IN USE)
HGR-S	OFF-DIS-ABLED	(HGR STATUS)

MENU	▼Details	
SUB MENU	↻▼HGR	
MENU	↻▼Service	
HGR	OFF	(HOT GAS REHEAT)
OPRHGRTEMPSP	Deg F	(OPERATIONAL HGR TEMPERATURE SP)
SAT	Deg F	(SUPPLY AIR TEMPERATURE)
HGR	%	(HOT GAS REHEAT)
HOT GAS REHEAT BLEED VALVE COMMAND		(HOT GAS REHEAT BLEED VALVE COMMAND)
CI	OFF	(CI 24VACOUTPUTSTATUS)
C2	OFF	(UCB CI 24 VAC OUTPUT STATUS)
C3	OFF	(C3 24VACOUTPUTSTATUS)
C4	OFF	(4STG C4 24 VAC OUTPUT STATUS)
RAH	(49.6 %H)	(R A HUMIDITY 0-10 VDC INPUT)

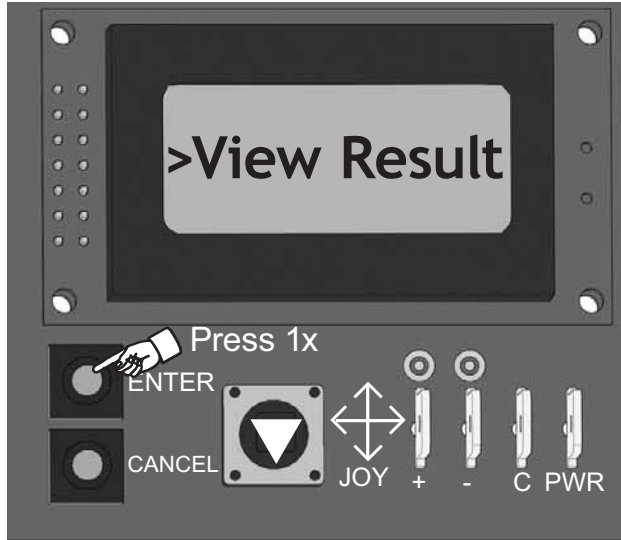
MENU	▼Details	
SUB MENU	↻▼Heat Pmp	
#HTPUMPSTGS	0	(# OF HEAT PUMPS)
TESTDEFROST-ENABLE	No	(TEST DEFROST ENABLE)
COMPDELAY-ENABLE	No	(COMPRESSOR DELAY ENABLE)
DEFROSTCURVESEL	Curve 1	(DEFROST CURVE SELECT)
REVLV	OFF	(REVERSING VALVE)
AUXHTG	OFF	(AUXILIARY HEAT)
MODE	COOLING	(MODE)

MENU	▼Details	
SUB MENU	↻▼ERV-En	
ERV-EN	No	(ECON&PWRXINTRGRATIONW/ERV)
ERVUNOCCFAN-EN		(ERV UNOCCUPIED FAN ENABLED)
FANCTL-TYPE	Single Speed	(UNITOPMODE)
FAN	Off	(UCB FAN 24 VAC OUTPUT STATUS)
ECON-FREE	No	(FREECOOLING AVAILABLE)
EXFAN	OFF	(EX-FAN 24 VAC OUTPUT)

MENU	▼Details	
SUB MENU	↩▼T24LoadShed ↩	
LOADSHEDRATELIM	.066	(RATE LIMITER)
LOADSHEDADJUST	4.0 F	(LOAD SHED ADJUST)
LOADSHEDENABLE	No	(LOAD SHED ENABLE)



MENU	▼Self Test ↩
START	(BEGINS THE SELF TEST SEQUENCE)
PAUSE	(CAUSES THE SEQUENCE TO HOLD ANY OUTPUTS ON FOR 10 MINUTES.)
CANCEL	(STOPS THE SELF TEST SEQUENCER AND RETURNS THE SEC TO NORMAL OPERATION.)
TESTSTATUS	(DISPLAYS CURRENT STATE OF THE SELF TEST SEQUENCER)
RESET	(ERASES THE PREVIOUS SELF TEST RESULTS AND PREPARES THE SELF TEST SEQUENCER FOR ANOTHER TEST RUN)



MENU	▼View Result ↩	
FANRESULT	PASS-FAIL	(APS ON EARLY OR APS OFF)
CIRESULT	PASS-FAIL-WARNING	
C2RESULT	PASS-FAIL-WARNING	
C3RESULT	PASS-FAIL-WARNING	
C4RESULT	PASS-FAIL-WARNING	
HIRESULT	PASS-FAIL-WARNING	
H2RESULT	PASS-FAIL-WARNING	
H3RESULT	PASS-FAIL-WARNING	
ECONRESULT	PASS-FAIL	(DAMPER)
ExHRESULT	WARNING-PASS	(BSP NOT DROPPED)

END OF MENU