



 pGD<sup>+</sup> colour touch screen



# **COMPU-AIRE**

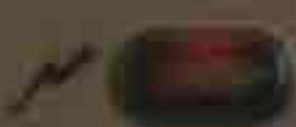
## System 2200L

enter

Unit Mode: Cool Only


program version: 6.10

program date: 9: 2 : 9



Prg

Esc

 pGD colour touch screen

Unit 1



### Main Menu


Status

Trending

Alarms

Setup



 pGD<sup>3</sup> colour touch screen

# Unit Status - General

Unit 1

Room Temperature: **-623.3 °F**

Room Humidity: **99.9 %**

Cooling: 0%



Heating: 0%



**SYSTEM OFF**



**CAREL** pGD<sup>3</sup> colour touch screen

# Unit Status - Past 24 Hours

## Temperature

MIN: -623.3 °F

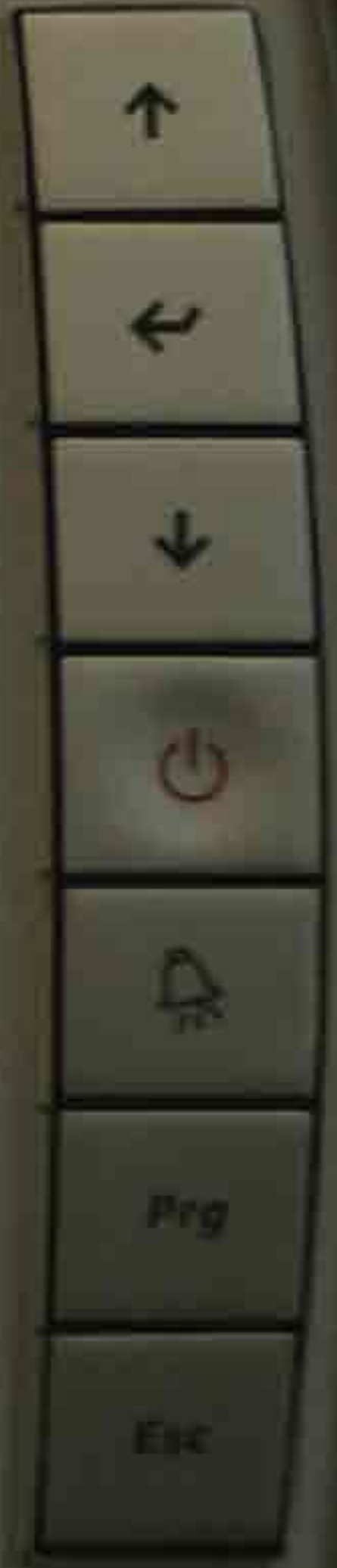
MAX: -623.3 °F


## Humidity

MIN: 999.9 %

MAX: 999.9 %

Unit 1



 pGD<sup>2</sup> colour touch screen

Unit 1



## Main Menu

Status

Trending


Alarms

Setup





Prg


Esc


 pGD<sup>®</sup> colour touch screen





Fan On 

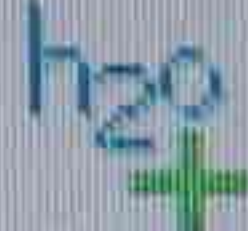
Demand for Cooling 

Demand for Heat 

Demand for Humidification 

Demand for Dehumidification 

Excess Humidity Draining 

Humidifier Active 

↑

↶

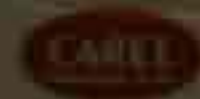
↓

⏻

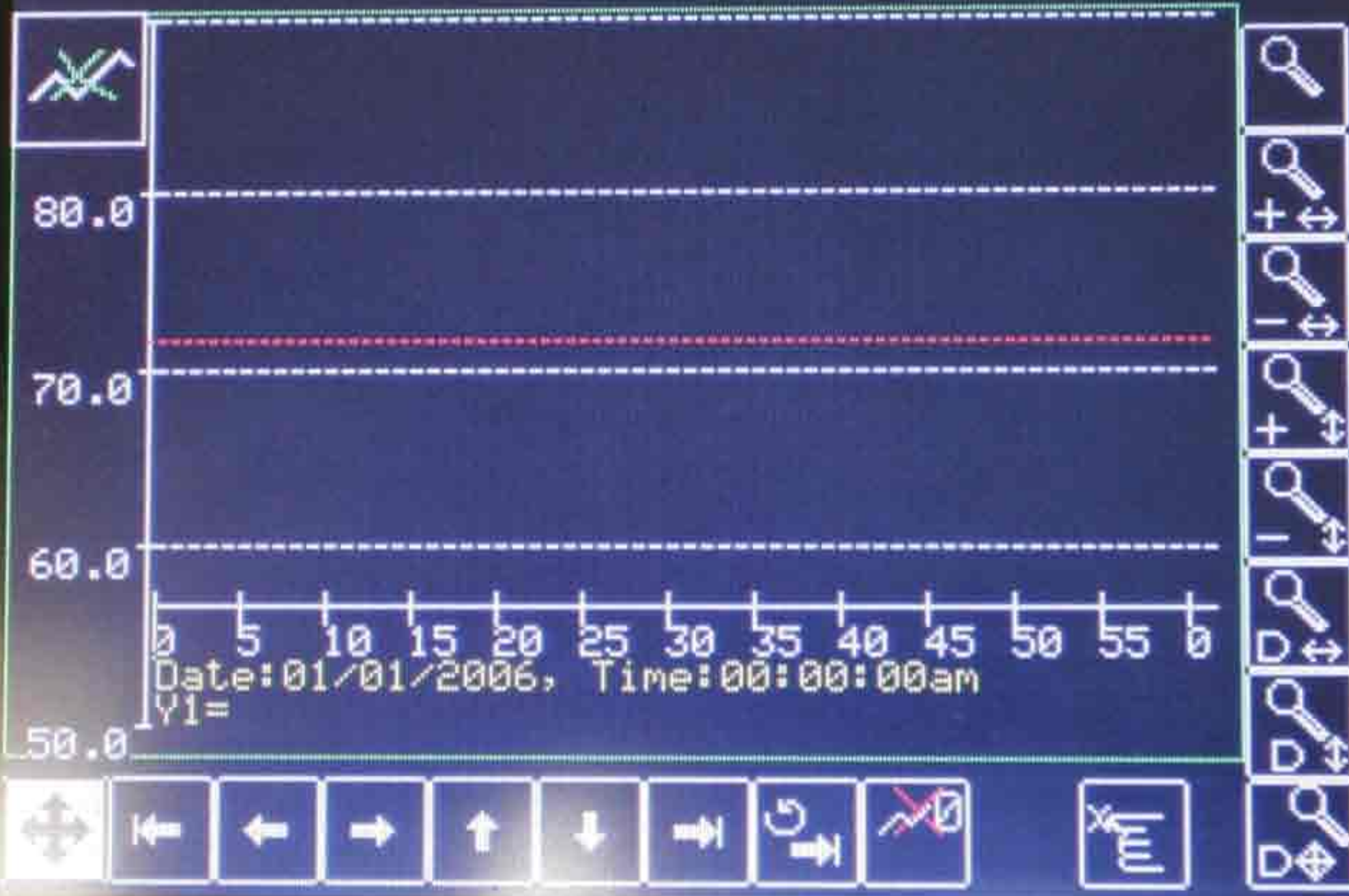
🔊

Prog

Esc

 pGD<sup>2</sup> colour touch screen

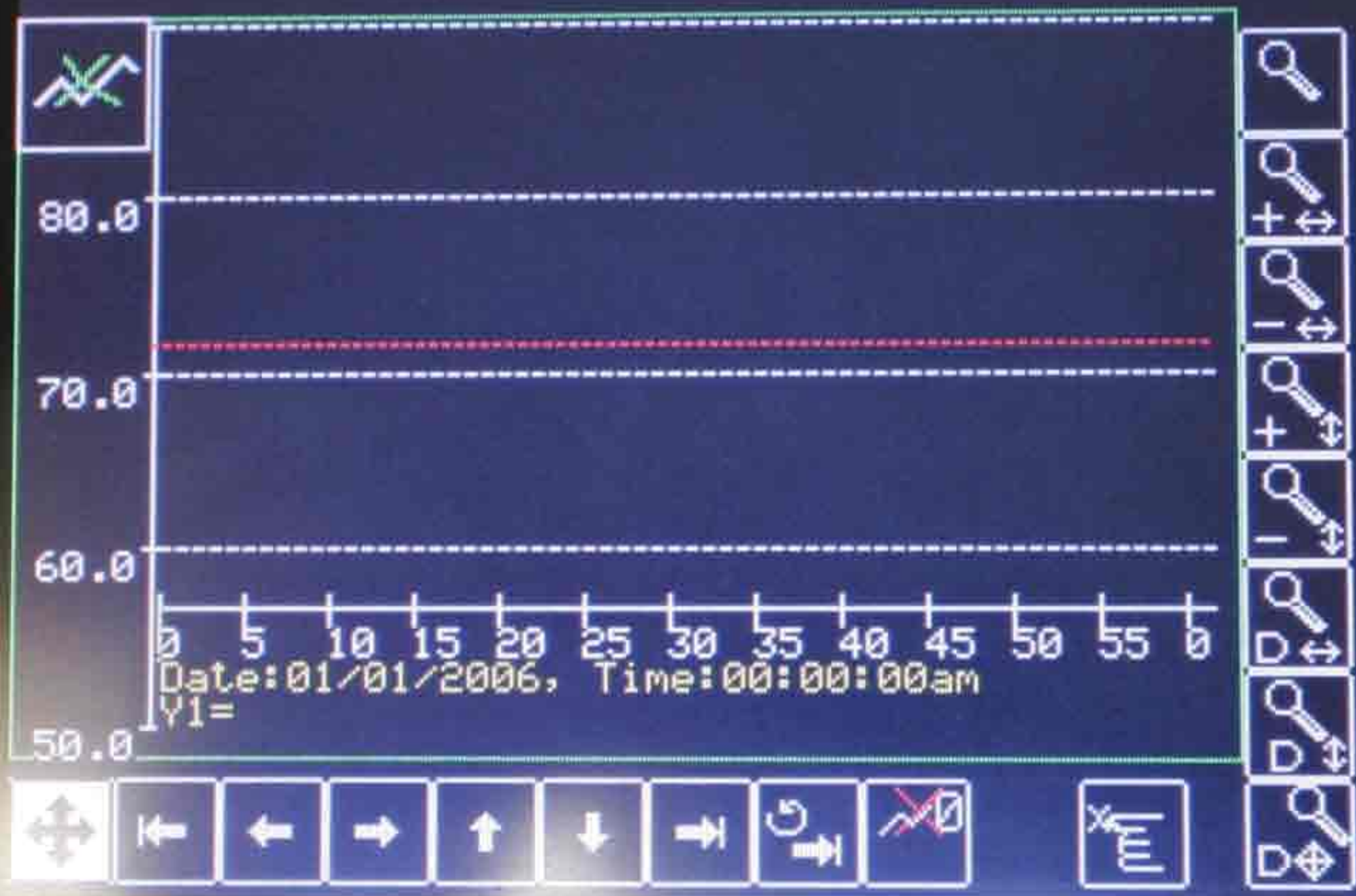
Return Temperature -623.3 °F



CAREL pGD<sup>2</sup> colour touch screen



Return Temperature -623.3 °F

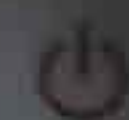
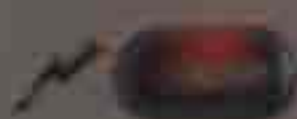


CAREL pGD colour touch screen

# SENSOR FAILURE

ROOM TEMPERATURE: Fail

ROOM HUMIDITY: Fail



PTB

Esc



 pGD<sup>1</sup> colour touch screen

## End of Alarm Menu

Press button below to attempt  
to clear any active alarms.

reset



# SENSOR FAILURE

ROOM TEMPERATURE: Fail


ROOM HUMIDITY: Fail



Prg

Esc

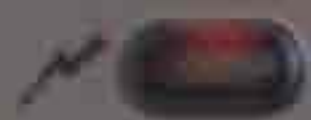


 pGD<sup>3</sup> colour touch screen

# SENSOR FAILURE

ROOM TEMPERATURE: Fail


ROOM HUMIDITY: Fail

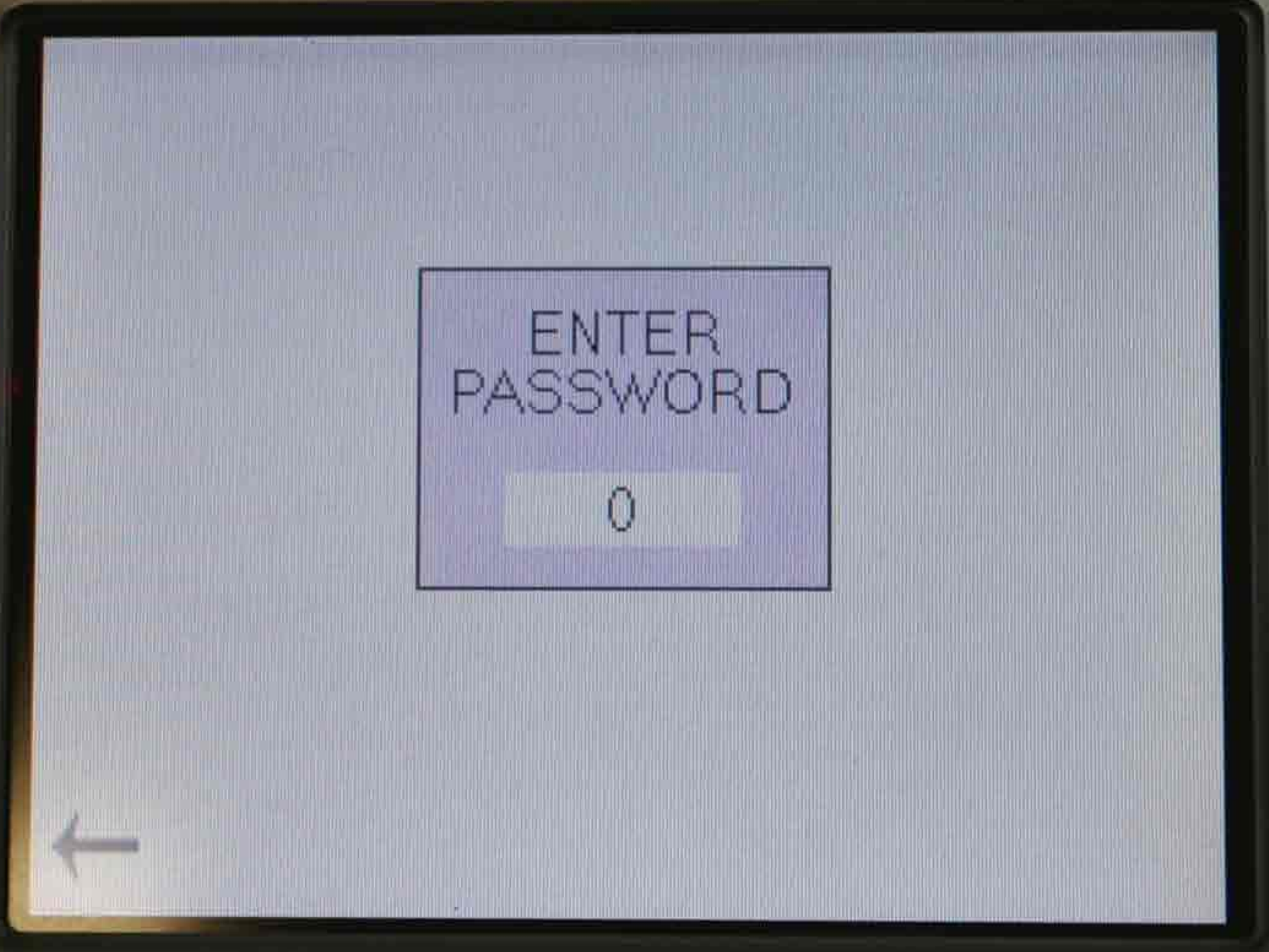



Prg

Esc



 pGD<sup>2</sup> colour touch screen



 pGD<sup>3</sup> colour touch screen



 pGD<sup>2</sup> colour touch screen

# SETUP MENU

Setpoints

Clock

Run Time

BMS

Technician

Factory

Alm Log

Exit





# Return/Room Setpoints

1

Temperature:


72.0°F

Temperature Alarm:

	Temp:	Delay:
HIGH:	80.0 °F	0s
LOW:	60.0 °F	0s

SYSTEM OFF



 pGD<sup>®</sup> colour touch screen

# Humidity Setpoints

2

**Humidity:**

50.0 %

**Humidity Alarm:**

	Hum:	Delays
HIGH	65.0 %	0 s
LOW	35.0 %	0



# Return/Room Setpoints

1

Temperature:

72.0°F

Temperature Alarm:

	Temp:	Delay:
HIGH:	80.0 °F	0s
LOW:	60.0 °F	0s

SYSTEM OFF



# Humidity Setpoints

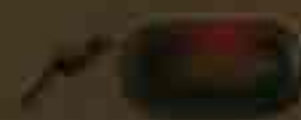
2

Humidity:

50.0 %

Humidity Alarm:

	Hum:	Delays
HIGH	65.0 %	0 s
LOW:	35.0 %	0



Prg

Exc

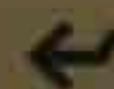
# Setup - Clock

1

Time: 20 : 28 Date: 1 / 28 / 10

Week Day: FRIDAY

Night Setback: NO



Prq

Exc

## Run Time Hour Meters

Fan:	-0-	Hrs	Reset:	NO
Economizer:	-0-	Hrs	Reset:	NO
Humidity:	-0-	Hrs	Reset:	NO
Comp 1:	-0-	Hrs	Reset:	NO
Comp 2:	0	Hrs	Reset:	NO

Unit 1



PrG

Exc

## Setup - BMS

Unit Identification: 1


Baud Rate: 19200

Protocol: MODBUS



Prg

Esc

 pGD<sup>1</sup> colour touch screen

# Setup - BMS

Unit


Lonworks

Bau

Prot

7	8	9	+/-	↑
4	5	6	CANC	↑
1	2	3	BACK	↓
0	OK	ESC		↓



 pGD<sup>2</sup> colour touch screen



# TECHNICIAN MENU

Alm Setup

Network


Sns. Ofs.

Man. Ctrl.

DI Setup

Exit



 pGD colour touch screen

# Configuration - Alarms

1

Temperature H/L Alarm:

R2  
OFF

Humidity H/L Alarm:

OFF

Compressor Alarm:

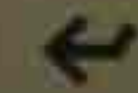
OFF

Air Flow Alarm:

OFF

Smoke Detect Alarm:

OFF



Prj

Esc

# Configuration - Alarms

2

Dirty Filter Alarm:

OFF

Sensor Failure Alarm:

OFF

Drain Full Alarm:


OFF

Fire Stat Alarm:

OFF

R2



 pGD<sup>®</sup> colour touch screen

# Configuration - Alarms

3

RMT/H/OAH Sensor Alarm Delay: 0 s

FC/OAT/B10 Sensor Alarm Delay: 0 s

Fire Stat: ON Temp: 125.0 F

Fire Stat Alarm Delay: 0 s

Offline Alarm Delay: 0 s



# Configuration - Alarms

4

Alarm Buzzer: ON  
T/H Alarm Delay: 15 M  
All Alarm Switchover: OFF

Disc. Cool: 0.2F Delay: 0 s  
Disc. Heat: 0.2F Delay: 0 s



# Configuration - Alarms

1

Temperature H/L Alarm:

R2  
OFF

Humidity H/L Alarm:

OFF

Compressor Alarm:

OFF

Air Flow Alarm:

OFF

Smoke Detect Alarm:

OFF



ROOM HUMIDITY

1

**B:3**

Current  
999.9

Offset  
0.0



Prg

Est

ROOM TEMPERATURE

3

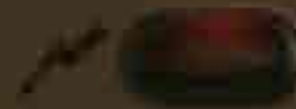
**B:4**

Current

-623.3


Offset

0.0



Prg

Exc

 pGD<sup>®</sup> colour touch screen



ROOM HUMIDITY

1

**B:3**

Current

999.9


Offset

0.0



Prg

Esc

 pGD<sup>3</sup> colour touch screen

ROOM TEMPERATURE

3

**B:4**

Current

-623.3

Offset

0.0



# Air Flow Switch

id:1

Alarm If:

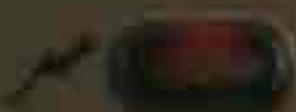
CLOSED

Currently:

OPEN

Delay:

2 s



PIB

Esc

# Smoke Alarm

id:2

Alarm If:

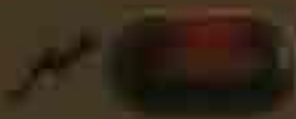
CLOSED


Currently:

OPEN

Delay:

2 s



 pGD<sup>®</sup> colour touch screen



# Hi-Limit Heater

id:3

Alarm If:

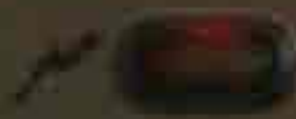
OPEN

Currently:

OPEN

Delay:

10 S



Prg

Esc

# Comp. 1 Low Pressure

id:7

Alarm If:

CLOSED

Currently:

OPEN

Delay:

2 s



# Comp. 1 High Pressure

id:8

Alarm If:

CLOSED

Currently:

OPEN

Delay:

10 S



PrG

Exc

# Dirty Filter

id:4

Alarm If:

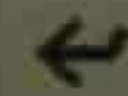
CLOSED

Currently:

OPEN

Delay:

17 S



Prg

Esc



# Water Flow

id: 6

Alarm If:

CLOSED

Currently:

OPEN

Delay:

8 S



Prg

Esc

# Air Flow Switch

id:1

Alarm If:

CLOSED

Currently:

OPEN

Delay:

2 S



PrG

Exc

# Setup - Network

1

Total Units: 1 Standby Units: 0

Use Only U1 Sensors: NO

Time Rotation: NO

Force Rotation: NO



Prg

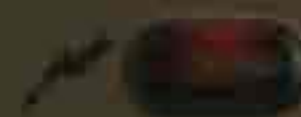
Esc

# Setup - Network Assist

2

Cool:	NO	Band:	2.0
Heat:	NO	Band:	2.0
Dehumidify:	NO	Band:	5.0 %
Humidify:	NO	Band:	5.0 %

Delay of Assistance: 600 s



Prg

Esc

# Setup - Network

1

Total Units: 1 Standby Units: 0

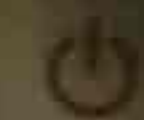
Use Only U1 Sensors: NO

Time Rotation: NO

Force Rotation: NO



 pGD<sup>®</sup> colour touch screen



Prg

Esc

# Setup - Network Assist

2

Cool:	NO	Band:	2.0
Heat:	NO	Band:	2.0
Dehumidify:	NO	Band:	5.0 %
Humidify:	NO	Band:	5.0 %

Delay of Assistance: 600 s



## Setup - Network Assist

2

Cool:	NO	Band:	2.0
Heat:	NO	Band:	2.0
Dehumidify:	NO	Band:	5.0 %
Humidify:	NO	Band:	5.0 %

Delay of Assistance: 600 s



# Setup - Network

1

Total Units: 1 Standby Units: 0

Use Only U1 Sensors: NO

Time Rotation: NO

Force Rotation: NO





# Setup - Network Assist

2

Cool:	NO	Band:	2.0
Heat:	NO	Band:	2.0
Dehumidify:	NO	Band:	5.0 %
Humidify:	NO	Band:	5.0 %

Delay of Assistance: 600 s



# Manual

1

		Setting	Time (minutes)
NO1	Blower	AUTO	5
NO2	Heat1	AUTO	5
NO3	Heat2:	AUTO	



PTG

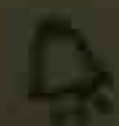
Exc

 pGD<sup>®</sup> colour touch screen

# Manual

2

		Setting	Time (minutes)
NO7	Comp 1	AUTO	5
NO11	Bypass	AUTO	5



PTB

Exc

# Manual

4

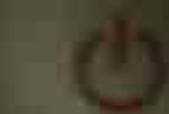
Setting

Time (minutes)

NO6	Dehum	AUTO	5
-----	-------	------	---



 pGD colour touch screen




# Manual

1

		Setting	Time (minutes)
NO1	Blower	AUTO	5
NO2	Heat1	AUTO	5
NO3	Heat2:	AUTO	



 pGD<sup>®</sup> colour touch screen

# FACTORY MENU

D. Inputs

HVAC

D. Outputs

Password

A. Inputs

F. Reset

A. Outputs

Exit



## Configuration - Digital Inputs 1

ID1	AIRFLOW SWITCH
ID2	SMOKE ALARM
ID3	HIGH HEATER LIMIT
ID7	COMPRESSOR 1 LOW PR
ID8	COMPRESSOR 1 HIGH PR
--	CONDENSATE
ID6	WATER FLOW Alarm Only
ID4	FILTER ALARM



## Configuration - Digital Inputs 2

--- COMPRESSOR 2 LOW PR  
--- COMPRESSOR 2 HIGH PR  
--- COMPRESSOR 3 LOW PR  
--- COMPRESSOR 3 HIGH PR  
--- COMPRESSOR 4 LOW PR  
--- COMPRESSOR 4 HIGH PR  
--- CLOCK OVERRIDE  
--- FAN OVERLOAD





## Configuration - Digital Inputs 3

- REMOTE ON/OFF
- STANDBY PUMP
- HUMIDIFIER ALARM
- CONDENSATE PUMP
- REHEAT LOCKOUT
- HUMIDIFIER LOCKOUT



# Configuration - Digital Inputs 4

## USER INPUTS

---	OFF
---	OFF
---	OFF
---	OFF



# Input/Output Save and Restore 4

Save Input/Output Configuration:

NO

Restore Last Input/Output  
Configuration From Before Save

NO



## Configuration - Digital Inputs 1

ID1	AIRFLOW SWITCH
ID2	SMOKE ALARM
ID3	HIGH HEATER LIMIT
ID7	COMPRESSOR 1 LOW PR
ID8	COMPRESSOR 1 HIGH PR
---	CONDENSATE
ID6	WATER FLOW Alarm Only
ID4	FILTER ALARM



## Configuration - Digital Outputs

NO1	System Blower
---	Blower High Speed
NO2	Heat 1 / Heat Pump Valve 1
NO3	Heat 2 / Heat Pump Valve 2
---	Heat 3
---	Heat 4
---	HeatPump Mode



Prg

Esc

## Configuration - Digital Outputs

NO7	Compressor 1
---	Unloader 1
NO11	Bypass 1
---	Liquid Line
---	Compressor 2
---	Unloader 2
---	Bypass 2
---	Liquid Line 2



 pGD<sup>®</sup> colour touch screen



PrG

Esc

## Configuration - Digital Outputs


--- Compressor 3  
--- Bypass 3  
--- Compressor 4  
--- Bypass 4  
--- Cooling  
--- Condenser Fan  
--- Drain



## Configuration - Digital Outputs

---	Humidifier
NO6	DeHumidifier
---	Alarm 2
---	Global Alarm



 pGD<sup>2</sup> colour touch screen





## Configuration - Digital Outputs

--- Y1 Relay  
--- Y2 Relay  
--- Y3 Relay  
--- Y4 Relay  
--- Y5 Relay  
--- Y6 Relay



# Input/Output Save and Restore


Save Input/Output Configuration:

NO

Restore Last Input/Output  
Configuration From Before Save

NO



 pGD<sup>®</sup> colour touch screen



## Configuration - Digital Outputs

NO1	System Blower
---	Blower High Speed
NO2	Heat 1 / Heat Pump Valve 1
NO3	Heat 2 / Heat Pump Valve 2
---	Heat 3
---	Heat 4
---	HeatPump Mode



## Configuration - Digital Outputs

NO7	Compressor 1
---	Unloader 1
NO11	Bypass 1
---	Liquid Line
---	Compressor 2
---	Unloader 2
---	Bypass 2
---	Liquid Line 2



Prg

Esc

# Config. - Analog Inputs

1

- B3 ROOM HUMIDITY
- B4 ROOM TEMPERATURE
- DISCHARGE AIR TEMPERATURE
- COIL 1 TEMPERATURE
- COIL 2 TEMPERATURE




## Config. - Analog Inputs

2

- WATER IN TEMPERATURE
- WATER OUT TEMPERATURE
- OUTSIDE AIR TEMPERATURE
- OUTSIDE AIR HUMIDITY



 pGD<sup>®</sup> colour touch screen

# Config. - User Analog Inputs 3

---

NONE

Sensor Type:

Scale Low:

Scale Hi:



# Config. - User Analog Inputs 4

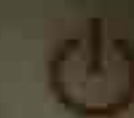
---

NOT USED

Sensor Type:

Scale Low:

Scale Hi:



Prg

Esc



# Config. - User Analog Inputs 5

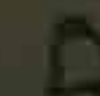
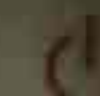
---

NOT USED

Sensor Type:

Scale Low:

Scale Hi:



Prg

Esc

# Config. - User Analog Inputs 6

---

NOT USED

Sensor Type:

Scale Low:

Scale Hi:



# Input/Output Save and Restore 6

Save Input/Output Configuration:

NO

Restore Last Input/Output  
Configuration From Before Save

NO



 pGD<sup>®</sup> colour touch screen



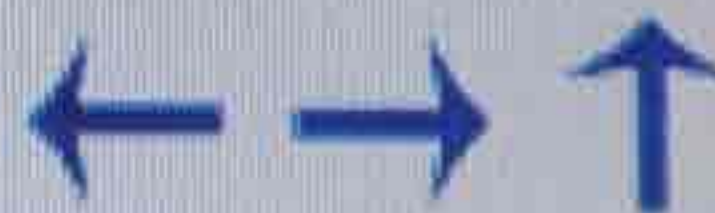
# Configuration - Analog Outputs 1

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0



## Configuration - Analog Outputs 2

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0



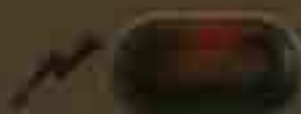
# Input/Output Save and Restore<sup>3</sup>

Save Input/Output Configuration:

NO

Restore Last Input/Output  
Configuration From Before Save

NO



PrG

Esc

# Configuration - Analog Outputs 1

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0



## Configuration - Analog Outputs 2

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0

--- None - (disabled)  
Action: YES Min V: 2.0 Max V: 10.0





# Setup - Fan

1

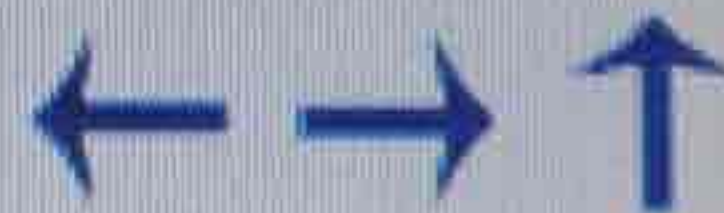
Mode: CONT.                      Speed: HIGH

Fan Start Delay:    30 s

Shutdown fan on air flow loss: ON

Min On:    30s              Min Off:    30s

Unit of temperature: F



# Setup - Compressors 1

2

Short Cycle: 10 / HR TBC: 120

Min On: 120 Min Off: 120

Rotation (hrs): none Pump Down: NO

Economizer: OFF DX Assist: YES

Low Pressure Retrys: 5 / HR

Current LP Compressor Cycle Count

C1: 0 C2: 0

C3: 0 C4: 0



## Setup - Compressors 2

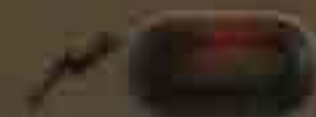
3

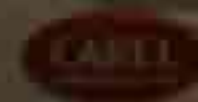
Mode: COMPS Num: 2 Size: Same

Unloaders: NO

Hysteresis: 10 LP Bypass: 3M

Stg 1 Start: 40 Stg 2 Start: 80



 pGD<sup>®</sup> colour touch screen



# Setup - Humidity

4

Humidify Setpoint: 10 %

Humidifier: ON

Band: 5.0

Rm H. Type: P

Control: Direct

Period: 600 s

Start Position: 0 %

Start Delay: 0 s



# Setup - Humidity

5

HT / Humidity Lockout: ON

Dehumidifier: ON

Dehumidify C2: OFF    Autodrain: OFF

Hum. Response Time: 3s

Hyst: 9 %



## Change Passwords

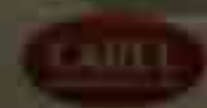
Level 1:

Level 2:

Level 3:

Use caution to remember changes!



 pGD<sup>+</sup> colour touch screen

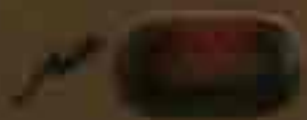



# Factory Reset

Factory Reset: NO

Set Unit Mode: COOLING ONLY

Reset Alarm History: NO



 pGD<sup>®</sup> colour touch screen



# FACTORY MENU

D. Inputs

D. Outputs

A. Inputs

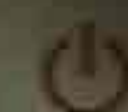
A. Outputs

HVAC

Password


F. Reset

Exit



Prg

Esc

 pGD<sup>®</sup> colour touch screen



# Factory Reset

Fact

COOLING & HEATING

Set

Res

7	8	9	+/-	↑
4	5	6	CANC	↑
1	2	3	BACK	↓
0	OK	ESC		↓



## Alarm History Log

Alarm No: 4

SENSOR 1 FAILURE

Date: 1 / 28 Time: 20 : 26

Temperature: -623.3 F

Humidity: 999.9 %



## Alarm History Log

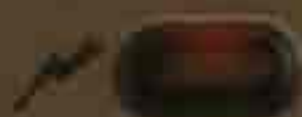
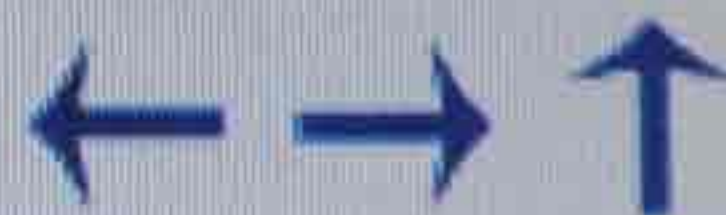
Alarm No: 4


SENSOR 1 FAILURE

Date: 1 / 28 Time: 20 : 26

Temperature: -623.3 F

Humidity: 999.9 %



 pGD colour touch-screen



Prg

Esc