

OPERATION

Step 1. Apply Power to the Instrument

When your device is first powered up it will display the ambient temperature (assume 75°F).

Step 2. Enter Setpoint 1 Menu

Press **⏏** one time from run mode to get to **SP1** Setpoint 1.

Step 3. Enter the Setpoint 1 Value Submenu

Press **⏏**. Display shows the previous selection of Setpoint 1.

Step 4. Change the Setpoint 1 Value

Press **▲** or **▼** until desired value is displayed.

Step 5. Store the Setpoint 1 Value

Set the Setpoint 1 to 10 degree higher than Process value (SP1 = 85) and press **⏏** to store, display flashes **SErD** message and advances to **SP2** Setpoint 2 Menu.

Step 6. Store the Setpoint 2 Value

Repeat steps 3 and 4. Set the Setpoint 2 to 5 degree higher than Process value (SP2 = 80) and press **⏏** to store, display flashes **SErD** message and advances to **ENFG** Configuration Menu.

Step 7. Enter the Reading Config Menu

Press **⏏** to enter **RdG** Reading Config Menu.

Step 8. Enter the submenu items of Rdg Config Menu

Press **⏏** to display **SENSR** Sensor submenu: Sensor selection for Autotune, Loop, or Ramp and Soak **F.F.C** is for temperature and **h.RH** is for Humidity

Step 9. Enter the submenu items of Rdg Config Menu

Press **⏏** to display Temp Unit submenu:

Step 10 Scroll thru selection for Temp Unit submenu

Press **▲** to Scroll through the available selections of the Temperature Unit of your choice: **F** or **C**.

Step 11. Store the Temperature Unit

Press **⏏**, display momentarily shows **SErD** the Unit has been stored and the instrument will go automatically to the next menu item.

Step 12. Enter the Filter Constant Submenu

Display shows **F.L.T.R** Filter Constant Submenu.

Step 13. Display the Filter Constant Value Submenu

Press **⏏** to display the flashing, previously selected Filter Constant.

Step 14. Scroll through available Filter Constants

Press **▲** to sequence thru Filter Constants **0001**, **0002**, **0004**, **0008**, **0016**, **0032**, **0064** and **0128**.

Step 15. Store the Filter Constant

Press **⏏** momentarily to store **0004** Filter Constant and the instrument will automatically go to the next menu item.

Step 16. Enter Alarm 1 Menu

The display will show **ALR1** the top menu for Alarm 1. In the following steps we are going to enable Alarm 1, Deviation, Unlatch, Normally Open, Active Above, Enable at power-on and +2°F High Alarm i.e. Process Value > Setpoint 1 Value +2°F will activate Alarm 1.

- If Analog Output Option is installed and enabled, the controller will skip Alarm 1 Menu item to Analog Output.
- Alarm must be DISABLED if Ramp is ENABLED.
- Alarm1 will only work for Humidity, not Temperature.

Alarm 1 is designed to monitor the humidity value around Setpoint 1 and Alarm 2 is designed to monitor the temperature value around Setpoint 2.

Step 17. Enter Alarm 1 Enable/Disable Submenu

Press **⏏** to display flashing **ENBL**.

Step 18. Enable Alarm 1 Submenu

If flashing **ENBL** is displayed, press **⏏**, if **DSBL** is displayed, press **⏏** until **ENBL** is displayed, then press **⏏** to store and go to the next menu item.

Step 19. Select the Deviation Control Type Submenu

Press **⏏**. If flashing **DEV** Deviation is displayed press **⏏**, otherwise press **▲** until flashing **DEV** is shown. Now press **⏏** to store and go to next menu item.

Step 20. Select the Latched Type Submenu

Press **⏏**. If flashing **UNL** Unlatched is displayed press **⏏**, otherwise press **▲** until **UNL** is displayed. Press **⏏** to store and advance to next menu item.

Step 21. Select the Normally Open Type of Contact Closure Submenu

Press **⏏**. If flashing **N.O.** Normally Open is displayed, press **⏏**, otherwise press **▲** until **N.O.** is displayed. Press **⏏** to store and advance to next menu item.

Step 22. Select the Above Type of Active Submenu

Press **⏏**. If flashing **ABOV** Above is displayed, press **⏏**, otherwise press **▲** until **ABOV** is displayed. Press **⏏** to store and advance to next menu item.

Step 23. Enable Alarm 1 at Power On (A.P.ON)

Press **⏏**. If flashing **ENBL** is displayed, press **⏏**, otherwise press **▲** until **ENBL** is displayed. Press **⏏** to store and advance to next menu item.

Step 24. Enter Alarm 1 High Submenu

Press **⏏** twice to skip **ALR.L** Alarm 1 Low value. **ALR.H** is for below & **ALR.H** for above.

Step 25. Set the Alarm 1 High value (ALR.H)

Press **⏏**. Press **▲** or **▼** until value to set the display to **002.0**. Press **⏏** to save.

Step 26. Enter the Alarm 2 Menu

The display will show **ALR2** the top menu for Alarm 2. Repeat steps from 17 to 25 to set for Alarm 2 the same conditions as for Alarm 1.

Step 27. Skip the Loop Break Time Menu (LOOP)

Press **⏏** to go to the **OUT1** Output 1 Menu item.

Step 28. Configuration the Output 1 Menu

Note Set Alarm 1 Disabled (Step 18) to be able to Enable Output 1.

Step 29. Configuration of Display Color Selection

Press **⏏** until the **COLR** Display Color Selection Menu appears on the Display. Configure **COLR** as **W.CLR** / **GRN** (green), **U.CLR** / **RED** (red), **P.CLR** / **AMBR** (amber). Please refer to the operator's manual if needed.

Note For color change on Setpoints refer to Owners Manual Section 2.

SPECIFICATION

SENSOR SPECIFICATIONS

Relative Humidity Accuracy/Range:

±2% for 10 to 90% RH

±3% for 0 to 10%RH and 90 to 100%RH

Non-linearity: ±3%

Hysteresis: ±1% RH

Response Time:

4 sec (63% slowly moving air)

Repeatability: ±0.1%

Resolution: 0.03%, 12bit

Temperature Accuracy/Range*:

±1°C (±2°F) for -40 to 0°C and 80 to 123.8°C (-40 to 32°F and 176 to 254°F)

±0.5°C (±1°F) for 0 to 80°C (32 to 176°F)

*NOTE: extended temp range is for Probe only, the Controller's operating temp is 0-50°C

Repeatability: ±0.1°C

Resolution: 0.01°C, 14 bit

METER SPECIFICATIONS

Display:

4-digit, 9-segment LED,

• 10.2 mm (0.40")

Red, green, and amber programmable colors for setpoint and temperature units.

Output 1[†]:

Relay 250 Vac @ 3 A Resistive Load,

SSR, Pulse

Output 2[†]:

Relay 250 Vac @ 3 A Resistive Load,

SSR, Pulse

[†] Only with -AL Limit Alarm option

Options: Communication

RS-232 / RS-485 or 10BaseT

or Excitation: 24 Vdc @ 25 mA

Exc. not available for Low Power Option

Line Voltage/Power:

90 - 240 Vac ±10%, 50 - 400 Hz*,

or 110 - 375 Vdc, 5 W

* No CE compliance above 60 Hz

Low Voltage Power Option:

12 - 36 Vdc, 3 W**

** Units can be powered safely with 24 Vac but No Certification for CE/UL are claimed.

Dimensions:

25.4 H x 48 W x 126.3 D mm

(1.0 x 1.89 x 5")

Weight:

127 g (0.28 lb)

Approvals:

CE per EN61010-1:2001

WARNING: These products are not designed for use in, and should not be used for, patient-connected applications.

! This device is marked with the international caution symbol. It is important to read the Setup Guide before installing or commissioning this device, as the guide contains important information relating to safety and EMC.

It is the policy of OMEGA to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

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iSeries DPiTH-i32 Monitor CNiTH-i32-AL Limit Alarm Humidity + Temperature

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