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 591 Setpoint 1.

Step 3. Enter the Setpoint 1 Value Submenu

Press ②. 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 ② to store, display flashes Stramessage 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 • message and advances to • FFC Configuration Menu.

Step 7. Enter the Reading Config Menu Press 2 to enter Red Reading Config Menu.

Step 8. Enter the <u>submenu</u> items of Rdg Config Menu Press 2 to display Sensor submenu: Sensor selection for Autotune, Loop, or Ramp and Soak **F.:** is for temperature and **GORH** is for Humidity

Step 9. Enter the submenu items of Rdg Config Menu Press **O** to display Temp Unit submenu:

Step 10 Scroll thru selection for Temp Unit submenu Press • to Scroll though the available selections of the Temperature Unit of your choice: If or II.

Step 11. Store the Temperature Unit
Press ②, display momentarily shows Strol 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 FLER Filter Constant Submenu.

Step 13. Display the Filter Constant Value Submenu Press 2 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, 00 16, 0032, 0064 and 0 128.

Step 15. Store the Filter Constant

Press @ momentarily to store @604 Filter Constant and the instrument will automatically go to the next menu item.

Step 16. Enter Alarm 1 Menu

The display will show ALR 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

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 2 to display flashing 356L/ ENGL

Step 18. Enable Alarm 1 Submenu
If flashing ENBL is displayed, press ②, if ₫56L is displayed, press • until ENEL is displayed, then press • to store and go to the next menu item.

Step 19. Select the Deviation Control Type Submenu Press ②. If flashing Deviation is displayed press ②, otherwise press ③ until flashing Deviation is shown. Now press to store and go to next menu item.

Step 20. Select the Latched Type Submenu
Press ②. If flashing Unlatched is displayed press ②, otherwise press • until UNLE is displayed. Press 2 to store and advance to next menu item.

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

Press ②. If flashing W.o. Normally Open is displayed, press ②, otherwise press ③ until W.o. is displayed. Press ④ to store and advance to next menu item.

Step 22. Select the Above Type of Active Submenu Press ②. If flashing Above is displayed, press ②, otherwise press • until Bbo\ is displayed. Press • to store and advance to next menu item.

Step 23. Enable Alarm 1 at Power On (B.P.o.W)
Press ②. If flashing ENBL is displayed, press ②, otherwise press • until ENDL is displayed. Press • to store and advance to next menu item.

Step 24. Enter Alarm 1 High Submenu Press 2 twice to skip BLR.L Alarm 1 Low value. BLR.L is for below & ALR.H for above.

Step 25. Set the Alarm 1 High value (ALR.H) Press O. Press O or O until value to set the display to 002.0. Press 2 to save.

Step 26. Enter the Alarm 2 Menu

The display will show RLR2 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 29. Configuration of Display Color Selection Press @ until the DISPlay Color Selection Menu appears on the Display. Configure COLR as W.CLR / GRN (green), I.ELR / RED (red), Z.ELR / AMBR (amber). Please refer to the operator's manual if needed.

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"): DPiTH-i8DV Dual Vertical • 10.2 mm (0.40") and 21 mm (0.83"):

DPiTH-i8DH Dual Horizontal

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 Powe 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:

Dual Horizontal: 48H x 96W x 127D mm (1.89 x 3.78 x 5")

Dual Vertical: 48W x 96H x 127D mm (1.89 x 3.78 x 5")

Weight:

295 g (0.65 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.



It is the policy of OMEGA to comply with all worldwide safety and EMC/EMI regulations that apply. OEMGA 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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OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of one (1) year from the date of purchase. In addition to OMEGA's standard warranty period, OMEGA Engineering will extend the warranty period for four (4) additional years if the warranty card enclosed with each instrument is returned to OMEGA.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive scorosion; or current, heat, misture or vibration; improver specification; misapplication; misuse or other operating control to district or current. In the control to the

contact points, fuses, and triacs.

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The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit

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- 2. Model and serial number of the product under

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DPiTH-i8DH. DPiTH-i8DV **Humidity + Temperature Monitor** CNiTH-i8DH-AL, CNiTH-i8DV-AL **Humidity + Temperature Limit Alarm**



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MQS4003/1105



This Quick Start Reference provides information on setting up your instrument for basic operation. The latest complete Communication and Operational Manual as well as free Software and ActiveX Controls are available at www.omega.com/specs/iseries or on the CD-ROM enclosed with your shipment.

SAFETY CONSIDERATION



This device is marked with the international Caution symbol.

The instrument is a panel mount device protected in accordance with EN61010-1:2001. Remember that the unit has no power-on switch. Building installation should include a switch or circuit-breaker that must be compliant to IEC 947-1 and 947-3.

SAFETY:

- Do not exceed voltage rating on the label located on the top of the instrument housing. · Always disconnect power before changing signal and
- power connections. Do not use this instrument on a work bench without
- its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.
- Do not expose this instrument to rain or moisture.

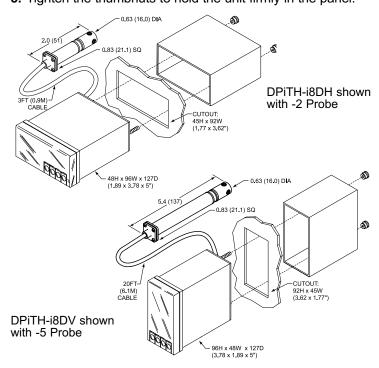
EMC:

- Whenever EMC is an issue, always use shielded cables.
- Never run signal and power wires in the same conduit.
- Use signal wire connections with twisted-pair cables.
- Install Ferrite Bead(s) on signal wire close to the instrument if EMC problems persist.

MOUNTING

Panel Mounting Instruction:

- 1. Using the dimensions from the panel cutout shown in exploded views, cut an opening in the panel. 45mm +.61/-.00 x 92mm +.81/-.00 with R 1.5, 4 places $(1.772" + .024 / -.000 \times 3.622" + .032 / -.000 with R 0.06", 4 places)$ Panel thickness: 6.4mm (0.25") max / 0.8mm (0.03") min.
- 2. Remove sleeve from the rear of the case by removing thumbnuts.
- 3. Insert the unit into the opening from the front of the panel, so the gasket seals between the bezel and the front of the panel.
- 4. Slip the sleeve over the rear of the case.
- **5.** Tighten the thumbnuts to hold the unit firmly in the panel.



Disassembly Instruction:

If necessary, the unit may be removed from the panel and opened.



Warning: Disconnect all ac power from the unit before proceeding.

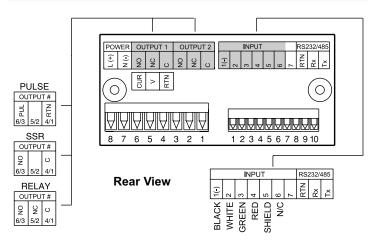
- Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
- The meter is front removable from the case
- **3.** Pull the board assembly out of the case.

WIRING

Wire the instrument according to the figure shown below.



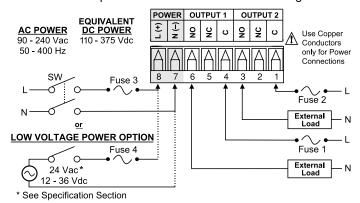
Warning: Do not connect ac power to your device until you have completed all input and output connections. This device must only be installed by a specially trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!





Refer to Operator's Manual for important Input Probe Note Shield wiring notes

Connect the main power connections as shown in the figure below.



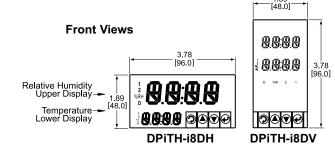
FUSE	Connector	Output Type	For 115Vac	For 230Vac	DC
FUSE 1	Output 1	Relay	3 A(T)	3 A(T)	-
FUSE 2	Output 2	Relay	3 A(T)	3 A(T)	-
FUSE 3	Power	N/A	100 mA(T)	100 mA(T)	100 mA(T)
FUSE 4	Power	N/A	N/A	N/A	400 mA(T)



Output 1 and 2 are for -AL Limit Alarm Option only

DESCRIPTION OF FRONT PANEL

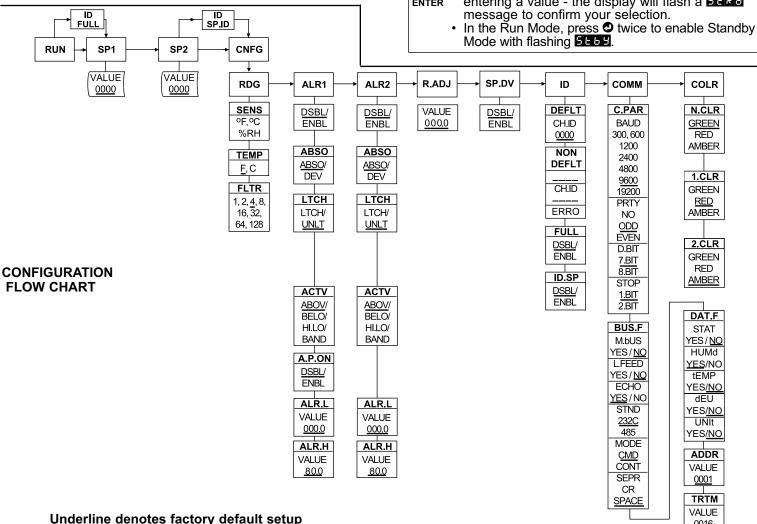
The upper display may be RH, Temperature or Dewpoint readings depending on your Reading Configuration selections. Factory defaults are shown. The Dual Display allows the user to observe the Relative Humidity or Dewpoint (upper display) and Temperature Value (lower display), at the same time.



1	Output 1/Setpoint 1/ Alarm 1 indicator		
2	Output 2/Setpoint 2/ Alarm 2 indicator		
°C	°C unit indicator for Temperature or Dewpoint		
°F	°F unit indicator for Temperature or Dewpoint		
%RH	Display shows the Percent Relative Humidity		
D	Display shows the Dewpoint		
•	Changes display to Configuration Mode and advances		
	through menu items*		
0	Used in Program Mode:		
0	Used in Program Mode:		
0	Accesses submenus in Configuration Mode and stores		
	selected values*		

CONFIGURATION

The instrument has two different modes of operation. Run Mode: used to display Temperature and Relative Humidity. Menu Configuration Mode: used to navigate through the menu options and configure the controller.



top level menus by pressing O. While a parameter is being modified, press o to

that is currently being modified.

Button Function in Configuration Mode

button.

escape without saving the parameter. Press the up button to scroll through "flashing" selections. When a numerical value is displayed press this key to increase value of a parameter

• To enter the Menu, the user must first press **②**

Use this button to advance/navigate to the next

menu item. The user can navigate through all the

 Pressing the button for approximately 3 seconds will speed up the rate at which the set point value increments.

 In the Run Mode, pressing the button changes display from RH readings to Temperature

 Press the down • button to go back to a previous Top Level Menu item.

 Press this button twice to reset the controller to the Run Mode.

 When a numerical value is flashing (except set point value) press • to scroll digits from left to right allowing the user to select the desired digit to modify.

 When a setpoint value is displayed press • to decrease value of a setpoint that is currently being modified. Pressing the button for approximately 3 seconds will speed up the rate at which the setpoint value is decremented.

 In the Run Mode, pressing the button changes from RH readings to Dewpoint readings.

<u>0016</u>

 Press the enter button to access the submenus from a Top Level Menu item.

 Press • to store a submenu selection or after entering a value - the display will flash a 5 t Rd Free Manuals Download Website

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