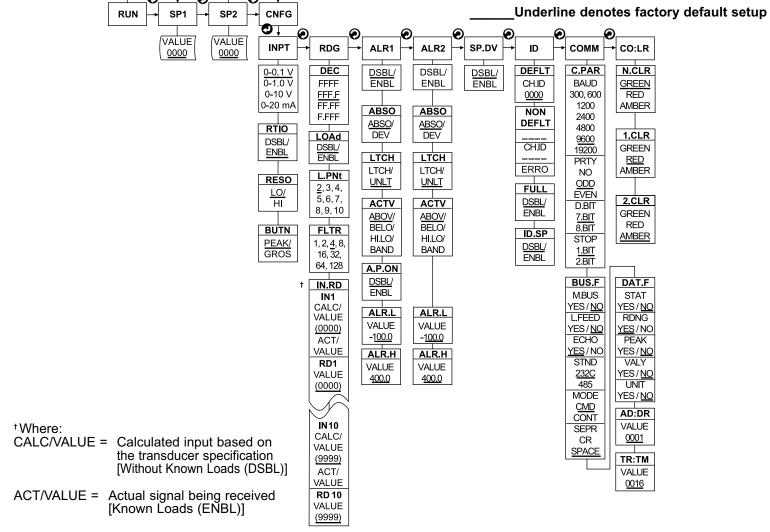
FLOW CHART ID FULL ≯ ID SP.ID 0-Ð 0 0

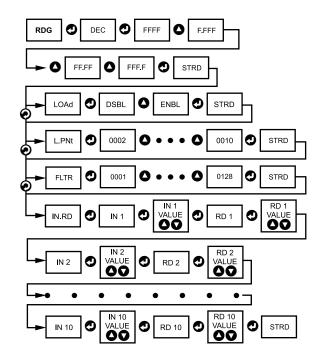
\bigcirc \bigcirc \mathbf{O}

Below is a flowchart showing how to navigate through all top level menus by pressing the **O** and **O** buttons.



READING CONFIGURATION SETUP (operation example)

Below is a flowchart showing how to navigate through the submenus of the Reading Configuration menu item by pressing the front buttons.



DISPLAY COLOR SETUP (examples)

Example 1:

Alarm setup: Absolute, Above, Alarm 2 HI Value "ALR.H" =200. Alarm 1 HI Value "ALR.H"=400 Color Display setup: Normal Color "N.CLR"=Green, Alarm 1 Color "1.CLR"=Amber, Alarm 2 Color "2.CLR"=Red

Display colors change sequences:

-	RED	AMBEF	2
0 AL2.H=200	-		
Example 2: Set Point 1: 200 Set Point 2: 200 Alarm 1 setup: Deviation	n Band "/	N R H" = 20	
Alarm 2 setup: Deviation			

<u>Alarm 2 setup</u>: Deviation, Hi/Low, "ALR.H = 10", "ALR.L = 5" Color Display setup: "N.CLR"=Green, "1.CLR"=Amber, "2.CLR"=Red

Display colors change sequences:

AMBER | RED | GREEN | GREEN | RED | AMBER

•->	••	•	•	•	•	
0	180	195	200	210	220	

SPECIFICATION

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 Excitation: 5 Vdc @ 40 mA, 10 Vdc @ 60 mA Exc. not available for Low Po Line Voltage/Power: 90 - 240 Vac ±10%, 50 - 400 Hz*. or 110 - 375 Vdc, 4 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 claime Dimensions: 48 H x 96 W x 74 D mm (1.89 x 3.78 x 2.91") Weight: 295 g (0.65 lb) Approvals: UL, C-UL, CE per EN61010-1:2001

WARNING: These products are not designed for use in, and should not be used for, patientconnected 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. 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.

The information contained in this document is believed to be correct, but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice TRADEMARK NOTICE

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OMEGA ENGINEERING, INC.

USA

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.

WARRANTY/DISCLAIMER

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 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 result of excessive corrosion; or current, heat, moisture or vibration; misoper specification; misoper insues or other operating conditions outside of OMEGA's control. Components which wear are not warranted, including but not limited to protect excited, funce, and there excessive control excited funce. contact points, fuses, and triacs.

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CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTVDISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS/INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any

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

- FOR <u>WARRANTY</u> RETURNS, please have the following information available BEFORE contacting OMEGA: FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA: Purchase Order number to cover the COST of the Purchase Order number under which the product was PURCHASED, Model and serial number of the product under warranty, and Model and serial number of product, and
 - Repair instructions and/or specific problems relative to the product.

Repair instructions and/or specific problems relative to the product. OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering. OMEGA is a registered trademark of OMEGA ENGINEERING, INC.

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PATENT AND TRADEMARK NOTICE: This product is covered by one or more of the following patents: U.S. Pat. No. Des. 336,895; 5,274,577; 6,243,021 / CANADA 2052599; 2052600 / ITALY 1249456; 1250938 / GERMANY DE 41 34398 C2 / SPAIN 2039150; 2048066 / UK Patent No. GB2 249 837; GB2 248 954 / FRANCE BREVET NO. 91 12756. The "Meter Bazel Design" is a trademark of Newport Electronics, Inc. USED UNDER LICENSE. Other U.S. and International Patents pending or applied for.









Series

Compact Process/Strain Gauge DPiS8C - Monitor CNiS8C-AL - Limit Alarm

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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.

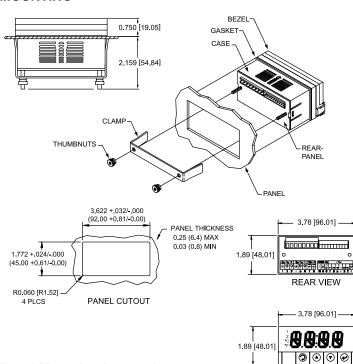
The instrument is a panel mount device protected in accordance with EN 61010-1:2001, electrical safety requirements for electrical equipment for measurement, control and laboratory. Remember that the unit has no power-on switch. Building installation should include a switch or circuit-breaker that must 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 diagram shown above, cut an opening in the panel.
- 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.

FRONT VIEW

- **4.** Slip the sleeve over the rear of the case.
- 5. Tighten the thumbnuts to hold the unit firmly in the panel.

Disassembly Instruction:

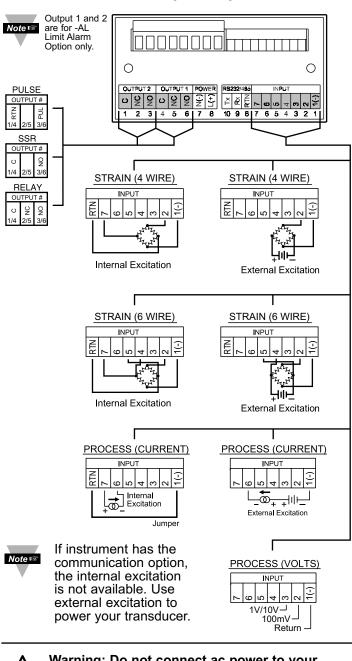
If necessary, the unit may be removed from the panel and opened.

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

- 1. Remove all wiring connections from the rear of the instrument, by unplugging the power and input connectors.
- 2. Remove both thumbnuts and set aside.
- 3. Remove the sleeve and set aside.
- **4.** Remove the meter from the panel and bend the side panel detents on the case outward to release the board. Pull the board assembly out of the case.

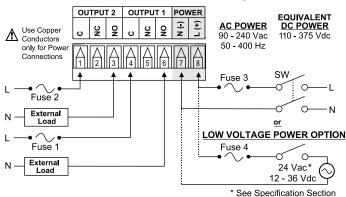
WIRING

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!

Connect the main power connections in the figure shown 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)

Note Coutput 1 and 2 are for -AL Limit Alarm Option only.

CONFIGURATION

Button Functions in Configuration Mode

Buiton	Functions in Configuration Mode
	 To enter the Menu, the user must first press ●
	button.
9	 Use this button to advance/navigate to the next
MENU	menu item. The user can navigate through all the
	top level menus by pressing ②.
	• While a parameter is being modified, press 🕗 to
	escape without saving the parameter.
	 Press the up O button to scroll through "flashing"
	selections. When a numerical value is displayed
	press this key to increase value of a parameter
0	that is currently being modified.
PK/GRS	 Holding the O button down for approximately accords will accord up the rate at which the
(UP)	3 seconds will speed up the rate at which the setpoint value is incremented.
	 In the Run Mode pressing O causes the display
	to flash the PEAK or GROSS value – press again
	to return to the Run Mode.
	 Press the down O 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
	setpoint value) press 오 to scroll digits from left to
•	right allowing the user to select the desired digit to
TARE	modify.
(DOWN)	 When a setpoint value is displayed press to
. ,	decrease value of a setpoint that is currently being
	modified. Holding the O button down for
	approximately 3 seconds will speed up the rate at
	which the setpoint value is decremented.
	 In the Run Mode pressing O causes the display to floob TAPE value to tare your reading (zeroing)
	 to flash TARE value to tare your reading (zeroing). Press the enter O button to access the submenus
	from a Top Level Menu item.
	 Press I to store a submenu selection or after
	entering a value — the display will flash a 5 t R d
	message to confirm your selection.
ENTER	 To reset flashing PEAK or GROSS press ¹
	 In the Run Mode, press I twice to enable
	Standby Mode with flashing 5t 69.
	Poppit Event for Alarma modifier any optimum of
Note 🖙	Reset: Except for Alarms, modifying any settings of the menu configuration will reset the controller prior

to resuming Run Mode.

DISPLAY ABBREVIATIONS

SP1Set Point 1 ValueSP2Set Point 2 VaCNFGConfiguration MenuINPtINPtInput Type (range)0 - 0.1100 mV Input Voltage0 - 1.01 V Input Voltage0 - 1010 V Input Volt O - 200 - 2020 mA Input CurrentRtioRatiometric OperationRtioRatiometric OperationRESODisplay ResolubUtNButton Peak/GrossPEAkPeak ValueRdGReading Configuration	lue
INPtInput Type (range)0 - 0.1100 mV Input Voltage0 - 1.01 V Input Voltage0 - 1010 V Input Vol0 - 2020 mA Input Current10 V Input VolRtioRatiometric OperationRESODisplay ResolubUtNButton Peak/GrossPEAkPeak ValueGROSGross Value10 VInput VolRdGReading Configuration10 VInput Vol	
Voltage 0 - 1.0 1 V Input Voltage 0 - 10 10 V Input Vol 0 - 20 20 mA Input Current Input Current Rtio Ratiometric Operation RESO Display Resolu bUtN Button Peak/Gross PEAk Peak Value GROS Gross Value Input Current Input Current	
0 - 1.01 V Input Voltage0 - 1010 V Input Volt0 - 2020 mA Input CurrentRtioRatiometric OperationRESODisplay ResolubUtNButton Peak/GrossPEAkPeak ValueGROSGross ValueRdGReading Configuration	
0 - 20 20 mA Input Current Rtio Ratiometric Operation RESO Display Resolution Button Peak/Gross PEAk Peak Value GROS Gross Value RdG Reading Configuration Image: Configuration	ane
Rtio Ratiometric Operation RESO Display Resolution bUtN Button Peak/Gross PEAk Peak Value GROS Gross Value Image: Configuration Image: Configuration	uge
bUtN Button Peak/Gross PEAk Peak Value GROS Gross Value	ition
GROS Gross Value RdG Reading Configuration	
RdG Reading Configuration	
dEC Decimal Point F.FFF Decimal Point	
LOAd Input Load EnbL Scaling with K	nown
Loads (Actual V	
DSbL Scaling without Known L.PNt Linearization P	
Loads (Calculated Value)	
0002 Number of Linearization FLtR Filter Constant	
0010 Points	
0001 Filter Constant Value IN.Rd Input/Reading	Scale
0128 and Offset Me	
IN 1 Input 1 Rd 1 Reading 1	-
IN 2 Input 2 Rd 2 Reading 2	
IN 10 Input 10 Rd 10 Reading 10	
ALR1 Alarm 1 Menu AbSo Absolute Mode	9
_dEV Deviation Mode LtcH Latched Mode	
UNLt Unlatched Mode Ct.CL Contact Closu	re
N.o. Normally Open N.c. Normally Close	əd
ActV Active Type AboV Active Above	
bELo Active Below Hi.Lo Above High/Be	elow
Low	
bANd Above or Below Band A.P.oN Alarm Enable/D	isable
at Power On	
ALR.L Alarm Low Value ALR.H Alarm High Va	lue
ALR.2 Alarm 2 Menu	
SP.dN Set Point Deviation	
Id ID Code Menu CH.Id Change ID Co	de
FULL Full ID SP.Id Set Point ID	
COMM Communication Option* NONE Communicatio	n is
Not Installed	
C.PAR Communication bAUd Baud Rate	
C.PAR Communication bAUd Baud Rate Parameters	
C.PAR Communication bAUd Baud Rate Parameters odd_ Odd	
C.PARCommunication ParametersbAUdBaud RatePRtYParityodd_OddEVENEven_No_No	
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* For abbreviations of Communication Option see Communication Manual.