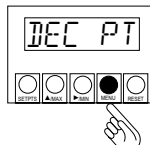


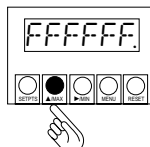
5

Set Default Decimal Point

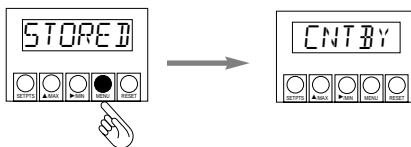
1. Press MENU. The meter displays:



2. Press ►/MIN to display the current decimal point. Change the display, if necessary, to read "FFFFFF." (Use ▲/MAX to change the decimal point position).



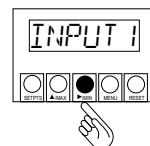
3. Press MENU. The meter stores changes (if applicable), then displays "CNT BY".



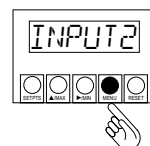
4. Press RESET twice. The meter momentarily displays "RESET 2" then returns to the run mode. The meter will now read the input signal (4mA = ≈ 000000. and 20mA = ≈ 020000.).

Measure and Record Input Values

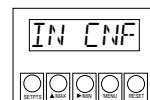
1. Apply 4mA to the input and record the display reading. INPUT 1 = _____
Refer to this as Input One.



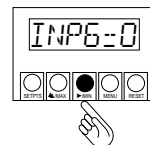
2. Apply 20mA to the input and record the display reading. INPUT 2 = _____
Refer to this as Input Two.



3. Press MENU until the meter displays:

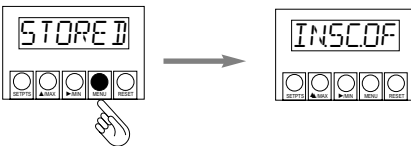


4. Press MENU until the meter displays:



Press ►/MIN to display "INP6=0"
Change the meter to read "INP.6=1"
(Use ►/MIN to scroll through digits and ▲/MAX to change the digit's value).

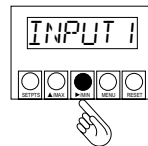
5. Press MENU. The meter stores changes and displays:



6

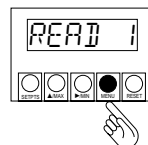
Scale Input Values

1. Press ►/MIN to display "INPUT 1":



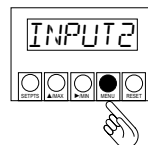
Press ►/MIN again. The meter displays "000000". Enter the INPUT 1 value recorded in step 1 of the Measure Input Values section of this quick start.

2. Press MENU. The meter displays "READ 1":



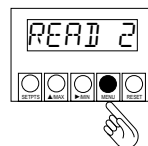
Press ►/MIN to display a six-digit number. Change the meter to read "000000". (Use ►/MIN to scroll through digits and ▲/MAX to change the digit's value.)

3. Press MENU. The meter displays "INPUT 2":



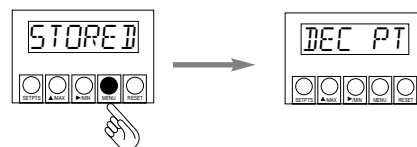
Press ►/MIN. The meter displays "000000". Enter the INPUT 2 value recorded in step 2 of the Measure Input Values section of this quick start.

4. Press MENU. The meter displays "READ 2":



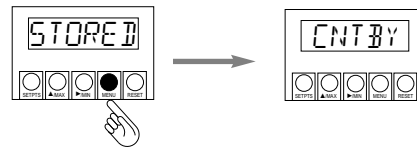
Press ►/MIN to display a six digit number. Change the meter to read "001000". (Use ►/MIN to scroll through digits and ▲/MAX to change the digit's value.)

5. Press MENU. The meter stores changes and displays:

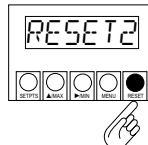


6. Press ►/MIN to display the current decimal point. Press ▲/MAX to change the decimal point location to "FFFFFF.F".

7. Press MENU. The meter stores this change, then displays "CNT BY"



8. Press RESET twice. The meter displays: "RESET 2", then returns to the run mode. The meter is now scaled to read 0 to 100.0 for a 4-20 mA input.



MADE USA

WARRANTY/DISCLAIMER

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 corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

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FOR WARRANTY RETURNS, please have the following information available BEFORE contacting OMEGA:

1. P.O. number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR NON-WARRANTY REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

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2. Model and serial number of product, and
3. Repair instructions and/or specific problems relative to the product.

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QUICK START



DP41-E High Performance Process Indicator



OMEGAnet® On-Line Service www.omega.com	Internet e-mail info@omega.com
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Servicing North America:

USA: One Omega Drive, P.O. Box 4047
 ISO 9001 Certified Stamford CT 06907-0047
 TEL: (203) 359-1660 FAX: (203) 359-7700
 e-mail: info@omega.com

Canada: 976 Bergar
 Laval (Quebec) H7L 5A1
 TEL: (514) 856-6928 FAX: (514) 856-6886
 e-mail: info@omega.ca

For immediate technical or application assistance:

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Mexico and Latin American: TEL: (001) 203-359-7803 FAX: (001) 203-359-7807
 e-mail: espanol@omega.com

Servicing Europe:

Benelux: TEL: +31 20 3472121 FAX: +31 20 6434643
 Toll Free in Benelux: 0800 0993344
 e-mail: sales@omegaeng.nl

Czech Republic: Frystatska 184, 733 01 Karviná
 TEL: +420 59 6311899 FAX: +420 59 6311114
 e-mail: info@omegashop.cz

France: TEL: +33 1 61 37 29 00 FAX: +33 1 30 57 54 27
 Toll Free in France: 0800 466 342
 e-mail: sales@omega.fr

Germany/Austria: Daimlerstrasse 26, D-75392 Deckenpfronn, Germany
 TEL: +49 7056 9398-0 FAX: +49 7056 9398-29
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START HERE

Using This Quick Start Manual

Use this Quick Start Manual to get your High Performance Process Indicator up and running. These instructions use the factory default settings of current input and **24 Vdc** sensor excitation.

Note

The latest complete Communication and Operational Manual as well as free Software are available at www.omega.com or on the CD-ROM enclosed with your shipment.

To start your unit you:

- connect ac power
- wire the sensor
- configure the meter, using the front panel buttons and the configuration menus

Before You Begin

Check the serial label on the top of the meter case. The model number's last 3 digits indicate if the meter is set up for voltage or current. C1 - C2 are current ranges and DC1 - DC10 are voltage ranges. **This quick start manual uses the C2 (4 - 20mA) range.** If your meter is setup for a range other than C2, consult the Operator's manual.

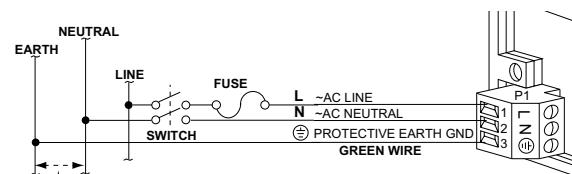
In addition to the unit and related parts, you will need the following items to set up your unit:

- ac power, as listed on meter's Product/ID
- 4-20mA input (eg: load cell, calibrator)
- 1/8" Phillips head screwdriver
- 1/8" flat blade screwdriver

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 ac Power

1. Remove the rear protective cover and set it aside. The cover is secured with a Phillips-head screw.
2. Locate connector P1 on the bottom-left-rear of the unit. The connector has three screw-down terminals.
3. Insert the correct wire in each terminal and tighten the lockdown screw. Tug gently on each wire to verify the connection.



Check for proper Earth grounding in the power distribution system (single phase).

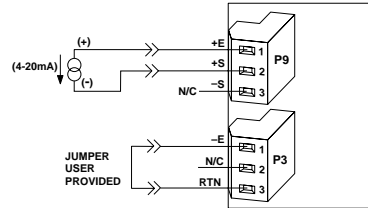
2

Wiring a Current Transmitter

Follow these steps to wire a current input sensor with sensor excitation.

1. Locate connectors P3 & P9 on the right-side-rear of the unit.
2. Attach the wires and tighten the retaining screws. Tug gently on the wires to verify the connection.

Wiring Example: Current Input with Sensor Excitation



3. Apply ac power. The front panel of the unit flashes RESET. If it does not:
 - a. Remove ac power.
 - b. Verify the P1 power and P3 and P9 input connections.
 - c. Check your power source.
 - d. Check your signal source.
4. Replace the rear cover. Thread the sensor wires through the slots on the side of the cover. Replace the rear cover screw.
5. Apply ac power once again.

Configure the Meter

Use the front panel buttons to access the configuration menus, to either verify or set the unit values. The function of each button is described below:

Meter Button Descriptions

Press This Button To:

	sequentially recall previous setpoint settings (run mode only), store new setpoint values.
	access the configuration program menus and move from one menu to the next.
	enter and scroll through a submenu.
	change the value of a submenu.
	move backward one menu (press once) or exit the configuration menus (press twice).

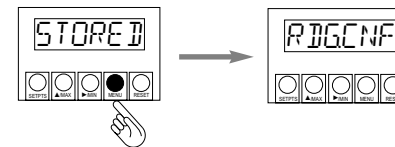
3

Quick Start Setup

Quick Start Setup scales your meter to read 0 to 100.0 for a 4 - 20mA input. This setup procedure is actually a series of short tasks. To complete Quick Start Setup successfully, it is important to perform all tasks in the order outlined in the Quick Start Setup.

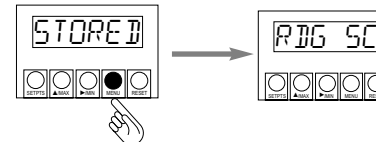
Select Input Range

1. Press MENU until the meter displays:
2. Press MIN until the meter flashes. Press MENU and "CURRNT" stops flashing. Press MIN to display a flashing input range of 4-20mA or 0-20 mA. Press MAX until the meter displays "4-20mA."
3. Press MENU. The meter stores changes (if applicable), then displays "RDG.CNF":



Set Up Reading Configuration

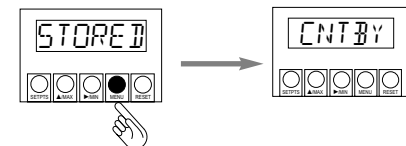
1. Press MIN to display "RDG.1". Press MAX until the meter displays "RDG.1=0". Selecting "RDG.1=0" enables direct formatting.
2. Press MIN to display "RDG.2". Press MAX until the meter displays "RDG.2=1". Selecting "RDG.2=1" enables an active decimal point.
3. Press MENU. The meter stores changes (if applicable), then displays "RDG SC":



4

Set Reading Scale Factor and Reading Offset

1. Press MIN to display the scale factor value. Change the value, if necessary, to read "1.00000" (Use MIN to scroll through digits and MAX to change the digit's value).
2. Press MENU. The meter stores changes (if applicable) then displays "RDG.OF":
3. Press MIN to display the offset value. Change the value, if necessary, to read "000000" (Use MIN to scroll through digits and MAX to change the digit's value).
4. Press MENU. The meter stores change, if applicable, then displays "IN CNF".



Set Default Input Scale and Offset

1. Press MIN until the meter flashes. Change the value, if necessary, to read "INP.6=0" (Use MIN to scroll through INP submenu choices and MAX to select 0 as the value). Setting "INP.6=0" disables input scale and offset.
2. Press MENU. The meter stores changes, if applicable, then displays "IN.SC.OF".

