

DPG5600 Battery Powered, Min/Max/Zero, Display Backlighting **Ranges and Resolution** See table below for ranges and user selectable units.

Units are user selectable via internal buttons Resolution is fixed for each engineering unit

Accuracy

Includes linearity, hysteresis, repeatability ±0.25% of full scale ±1 least significant digit

Display

3 readings per second nominal display update rate 4 digit LCD, 0.5" H and 5 character 0.25" H alphanumeric DPG3600, DPG5600; Red LED backlight

Batteries, Battery Life, Low Battery Indication

2 AA alkaline included. Approx. 2000 hours battery life DPG3600, DPG5600: 150-1500 hrs. depending on backlight usage Low battery symbol on display

Controls & Functions

Front button turns gauge on or off, zeros gauge reference gauges, and cycles through min/max functions

Internal push buttons for selection of engineering units and auto shutoff times. Pass code protected setup and calibration. DPG3600, DPG5600: Front button activates backlighting for 1 minute

Min/Max Functions

Minimum and maximum readings stored 3 times per second Front button cycles through min display, max display, clear Configurable for min only, max only, min/max, or none, clear min/max at power off or retain min/max at power off

Calibration

Pass code protected calibration Non-interactive zero, span, and linearity, ±10% of range

Auto Shutoff

User selectable 1 minute to 8 hours or front button on/off Factory default 5 minutes

Weight

Gauge: 9 ounces (approximately) Shipping: 1 pound (approximately)

Housing

Extruded aluminum case, epoxy powder coated, ABS/ polycarbonate bezel, front and rear gaskets, polycarbonate label

DPG3500, DPG3600: ABS/polycarbonate NEMA 4X case, rear gasket, polycarbonate label

Connection, Material, Media Compatibility

1/4" NPT male fitting, 316L stainless steel All wetted parts are 316L stainless steel Compatible with most liquids and gases

2 X pressure range for 3 psi to 2000 psi sensors

5000 psig for ranges using 3000 psig sensor 7500 psig for ranges using 5000 psig sensor Over-range display 112.5% FS: / - - - or / -.-.-Vacuum service: all 15 psi, 30 psia, all 100 psi, all 200 psi sensors Under-range display (non-vacuum sensors): -Err

Burst Pressure

Overpressure

4 X sensor pressure rating or 10,000 psi, whichever is less

Environmental Storage temperature: Operating temperature: Compensated temperature:

-40 to 203°F (-40 to 95°C) -4 to 185°F (-20 to 85°C) 32 to 158°F (0 to 70°C)



DPG3500 NEMA 4X DPG3600 NEMA 4X



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Range add after model number	Default Units	Selectable Units (models manufactured after 12-23-2012)					
03G	0-3.000 psig						
85INH20G	0-85.0 inches of water	psig, ling, linzu, $02/10^2$, g/cli ² , linling, 1017 , linuar, clinzu, linlinzu, linzu, k ² a					
05G	0-5.000 psig	nois inline optime storm much torrestor applied months (High High					
140INH20G	0-140.0 inches of water	psig, iling, ilinzo, oznir-, gran-, illing, ton, ilioal, cilinzo, illinzo, itnzo, kra					
15A	15.00-0 psi absolute	abaaluta: paja jalkata jalkata az <i>ija</i> 2a a/am2a mmlaa tarra mbara amlata amlata mmlata filkata kitaa Mbaa bara ka/am2a atma					
760TORRA	760.0-0 torr absolute	ausonute: psia, iinga, iingua, oziir-a, yotir-a, iininga, iona, iingua, ciingua, iiningua, iingua, kraa, wiraa, bara, kyotir-a, auna					
30INHGVAC	0-30.00 inHg vac	vacuum: psig, inHg, inH20, oz/in², g/cm², mmHg, torr, mbar, cmH20, mmH20, ftH20, kPa, MPa, bar, kg/cm², atm					
30V15G	-30.00 inHg vac to 15.00 psig	$\pm psig, \pm inHg, \pm inH_{2}0, \pm oz/in^{2}, \pm g/cm^{2}, \pm mmHg, \pm torr, \pm mbar, \pm cmH_{2}0, \pm mH_{2}0, \pm ftH_{2}0, \pm kPa, \pm MPa, \pm bar, \pm kg/cm^{2}, \pm atm$					
15G	0-15.00 psig	nois inlig inlig or in? grant multi tar what and a multip the labor labor has labor to the					
1BARG	0-1.000 bar	psig, $\lim_{z \to z}$, uz_{i} , uz_{i					
30A	30.00-0 psi absolute	absolute: psia, inHg, inH20, oz/in ² , g/cm ² , mmHg, torr, mbar, cmH20, mmH20, ftH20, kPa, MPa, bar, kg/cm ² , atm					
30G	0-30.00 psig	psig, inHg, inH20, oz/in ² , g/cm ² , mmHg, torr, mbar, cmH20, mmH20, ftH20, kPa, MPa, bar, kg/cm ² , atm					
60G	0-60.00 psig	psig, inHg, inH20, oz/in ² , g/cm ² , mmHg, torr, mbar, cmH20, mmH20, ftH20, kPa, MPa, bar, kg/cm ² , atm					
30V100G	-30.0 inHg vac to 100.0 psig	±psig, ±inHg, ±inH2O, ±oz/in ² , ±g/cm ² , ±mmHg, ±torr, ±mbar, ±cmH2O, ±mmH2O, ±ftH2O, ±kPa, ±MPa, ±bar, ±kg/cm ² , ±atm					
100G	0-100.0 psig	nois inter inter inter and a matter and a matter and a matter there are a matter and a matter and a matter and					
7BARG	0-7.000 bar						
30V200G	-30.0 inHg vac to 200.0 psig	±psig, ±inHg, ±inH20, ±oZ/in ² , ±ftH20, ±kPa, ±MPa, ±bar, ±kg/cm ² , ±atm					
200G	0-200.0 psig	nois inlig inlig of the transformer in the second state					
14BARG	0-14.00 bar	אוודע, ווודע, על/וור, ונחבט, גרמ, אורמ, טמו, גע/טור, מנוו					
300G	0-300.0 psig	psig, inHg, oz/in², ftH20, kPa, MPa, bar, kg/cm², atm					
500G	0-500.0 psig	psig, inHg, ftH2O, kPa, MPa, bar, kg/cm ² , atm					
1KG	0-1000 psig	psig, inHg, ftH20, kPa, MPa, bar, kg/cm ² , atm					
2KG	0-2000 psig	psig, inHg, ftH20, MPa, bar, kg/cm ² , atm					
3KG	0-3000 psig	psig, inHg, ftH20, MPa, bar, kg/cm ² , atm					
5KG	0-5000 psig	psig, MPa, bar, kg/cm ² , atm					



DPG 3500, 3600, 5500, 5600 Series Digital Pressure Gauges

Installation Precautions

- ✓ Read these instructions before using the gauge. Configuration may be easier before installation. Contact the factory for assistance.
- These products do not contain user-serviceable parts. Contact us for repairs, service, or refurbishment.
- ✓ Gauges must be operated within specified ambient temperature ranges.
- Outdoor or wash down applications require a NEMA 4X gauge or installation in a NEMA 4X housing.
- ✔ Use a pressure or vacuum range appropriate for the application.
- ✓ Use fittings appropriate for the pressure range of the gauge.
- ✓ Due to the hardness of 316 stainless steel, it is recommended that a thread sealant be used to ensure leak-free operation.
- For contaminated media use an appropriate screen or filter to keep debris out of gauge port.
- Remove system pressures before removing or installing gauge.
- ✓ Install or remove gauge using a wrench on the hex fitting only. Do not attempt to turn gauge by forcing the housing.
- Good design practice dictates that positive displacement liquid pumps include protection devices to prevent sensor damage from pressure spikes, acceleration head, and vacuum extremes.
- Avoid permanent sensor damage! Do not apply vacuum to nonvacuum gauges or hydraulic vacuum to any gauges.
- X Avoid permanent sensor damage! NEVER insert objects into gauge port or blow out with compressed air.
- Gauges are not for oxygen service. Accidental rupture of sensor diaphragm may cause silicone oil inside sensor to react with oxygen.

Types of Gauges

Gauge reference models read zero with the gauge port open. Compound ranges read vacuum in inches of Mercury, pressure in psig, and zero with the gauge port open.

1000 psi and higher sensors are a sealed reference type. They read zero with the gauge port open are internally referenced to 14.7 psi. They are functionally similar to gauge reference sensors.

Absolute reference gauges read zero at full vacuum and atmospheric pressure with the gauge port open. Note that readings of atmospheric pressure vary continuously.

Operation

Function	Button	Prompt (Release Button)
On	Press for 1 second	Display test > default units > selected units FULL SCALE > display test > actual reading
Zero (gauge ref. only)	Press and hold	Display test > o o o o o > default units > selected units FULL SCRLE > display test > actual reading
Hi reading	Press/hold	AX > max. reading & units
Lo reading	Press/hold	$\Pi \mid \Pi > min. reading \& units$
Exit Hi/Lo	Press/hold	**** > actual reading
Clear Hi/Lo	Press/hold	$\Pi RX > C L R \Pi X / \Pi N > actual reading$
Clear, off	Press/hold	MAX > CLR MX/MN > OFF

Power-Up

Press and hold the front button for approximately 1 second.

The display is tested, the default full-scale range is indicated, the full-scale range in the selected units are indicated, the display is tested again, then the actual pressure and units are displayed.

Power-Up With Zero

This applies to gauge reference models only. Absolute reference gauges do not use the zero feature since they read atmospheric pressure under normal conditions.

Be sure the gauge port is exposed to normal atmospheric pressure and no pressure is applied. The zeroing function is only activated at each power-up and the stored zero correction is erased when the gauge is shut off.

Press and hold the front button. The display is tested and then oooo is displayed. The gauge is now zeroed. Release the button and the full-scale range in the selected units are indicated, the display is tested again, then the actual pressure and units are displayed.

Attempting to zero the gauge with pressure greater than approximately 3% of full-scale pressure or vacuum applied will result in an error condition, and the display will alternately indicate Err 0 and the actual measured pressure. The gauge must be powered down to reset the error condition.

Normal Operation

Following the start-up initialization, the display indicates the pressure reading updated approximately 3 times per second. The auto shutoff timer starts when the gauge is powered up or whenever the button is pushed, unless the gauge shutoff time was set to zero for on/off operation.

Operation—continued

If excessive vacuum is applied to a pressure-only gauge, the display will indicate -Err until the vacuum is released. Applying vacuum to a gauge designed for pressure may damage the pressure sensor.

If excessive pressure is applied (112.5% over range), an out-of-range indication of 1-- or 1.-.-- will be displayed depending on model.

Display Backlighting (DPG3600, DPG5600 models only)

Display backlighting can be turned on by momentarily pressing the front button whenever the gauge is on. The backlighting will turn on for one minute and then automatically shut off. This also restarts the auto shutoff timer. The display backlighting will not be apparent under bright lighting conditions.

Minimum and Maximum Readings

Gauges are normally configured with minimum and maximum capture functions enabled. One or both can be disabled in the Advanced Configuration mode.

Minimum and maximum readings are continuously stored and updated whenever the gauge is on. The stored readings can be manually cleared if desired. The MAX and MIN memory is also cleared whenever the gauge is off unless configured to save the readings.

Press and hold the button for about 1 second until MAX is displayed alternating with the units. The maximum reading will be continuously updated. The gauge may be left in this mode.

After MAX is displayed, press and hold the button for about 1 second until MIN is displayed alternating with the units. The minimum reading will be continuously updated. The gauge may be left in this mode. If excessive vacuum is applied to a pressure-only gauge while in this mode, the display will indicate –Err until the MAX/MIN readings are cleared.

After MIN is displayed, press and hold the button again for about 1 second until * * * * is displayed. The MAX and MIN memory is not erased and the gauge returns to normal operation with the display indicating the current reading.

Press and continue to hold the button until the display indicates clr MX/MN (about 3 seconds total) and then release the button. Both maximum and minimum values are cleared and the gauge returns to the normal mode and displays the current pressure.

Shut-Down

To shut off the gauge manually at any time, press and hold the button until the display indicates OFF (about 5 seconds) and then release.

When an auto shutoff timer is used, the display indicates OFF five seconds prior to auto shutoff. The button can be pressed to keep the gauge on. The auto shutoff and backlight (if equipped) timers are reset whenever the button is pressed and released.

If the gauge set up without auto shutoff (on/off operation) it will stay on until manually shut off or until the batteries are depleted. Turn gauge off when not in use to conserve battery life.

Basic Configuration

Engineering Unit Selection

Engineering unit selection is done via internal buttons to help prevent accidental or unauthorized changes. The selected engineering unit is stored in non-volatile memory and will be retained even with the gauge off or batteries removed. The available engineering units depend on the sensor range and available display resolution.

Compound (inHg/PSIG) gauges must be changed to display singleunit vacuum/pressure readings in the Advanced Configuration mode before different engineering units can be selected.

The default engineering units are mathematically converted to the newly selected engineering unit. When the gauge is powered up, the originally configured range is displayed and then the conversion with the selected engineering unit is displayed.

To change engineering units remove the rear cover to gain access to the two internal buttons located near the lower right and left corners of the circuit board.

With the gauge powered up, press and hold the UP button. Release the button when the engineering units begin to flash.

Use the UP and DOWN but-

tons to scroll through the list of engineering units available for the pressure range of the sensor.

When the desired units are displayed, press and release the front button to save the selection and return to normal operation.

Note: The gauge will automatically revert to normal operation if no buttons are operated for approximately 15 seconds.

Replace the rear cover taking care not to pinch the power wires between the cover and the case.

Basic Configuration—continued

Auto Shutoff Time Selection

Auto shutoff time selection is done via internal buttons to help prevent accidental or unauthorized changes. The selected shut off time is stored in non-volatile memory and will be retained even with the battery off or batteries removed.

Remove the rear cover to gain access to the two internal buttons located near the lower right and left corners of the circuit board.

With the gauge powered up, press and hold the DOWN button. Release the button when the auto shutoff time is displayed.

The lower display will indicate AST M if the time displayed is in minutes, and AST H if it in hours.

An auto shutoff time of 0 signifies that the auto shutoff feature is disabled and the front button turns the gauge on and off.

Use the UP and DOWN buttons to select 0, 1, 2, 5, 10, 15, 20 or 30 minutes, or 1, 2, 4, or 8 hours.

When the desired time is displayed, press and release the front button to save the selection and return to normal operation.

Note: The gauge will automatically revert to normal operation if no buttons are operated for approximately 15 seconds.

Replace the rear cover taking care not to pinch the power wires between the cover and the case.

Advanced Configuration

Advanced configuration requires a pass code for access and allows more features to be configured.

Remove the rear cover to gain access to the buttons located near the lower right and left corners of the circuit board.

With the gauge off, press and hold the UP button. Then press the front button. Release all buttons when the display indicates CFG and the program version then the full-scale range is indicated and the display is tested.

The display then indicates ____ with the first underscore blinking, and with CFGPC (configuration pass code) on the character segments.

Note: The gauge will automatically revert to normal operation if no buttons are operated for approximately 15 seconds. To cancel and return to normal operation, press and release the front button without entering any pass code characters.

Pass Code Entry

The factory default is 3510, but this may be changed by the user under the Pass Code Configuration section.

- 1. Use the UP or DOWN buttons to set the left-most digit to 3.
- 2. Press and release the front button to move to the next position. The 3 will remain, and the second position will be blinking.
- 3. Use the UP or DOWN buttons to select 5.
- 4. Press and release the front button to index to the next position. 35 will remain, and the third position will be blinking.
- 5. Use the UP or DOWN buttons to select 1.
- 6. Press and release the front button to index to the next position. 351 will remain, and the fourth position will be blinking.
- Use the UP or DOWN buttons to select 0.
- Press and release the front button to proceed with configuration procedures.

If an incorrect pass code is entered, the gauge will return to the start of the pass code entry sequence.

Factory/User Configuration

The upper display section will be blank, and the lower section will display either USER_ or FCTRY.

If USER_ is selected, the user configuration can be modified as described in the following steps.

To select USER_, press and release the DOWN button.

The lower display will indicate USER

Press and release the front button to continue.

If FCTRY is selected, the existing user configuration will be replaced by the original factory configuration.

To select FCTRY, press and release the UP button.

The lower display will indicate FCTRY.

Press and release the front button to restore the factory configuration and restart the gauge.

Press and release the front button to move to the next parameter.

Use the UP and DOWN buttons to select from the following:

MX/MN Both highest and lowest values will be captured

Only highest value will be captured

Only lowest value will be captured

Capture feature is disabled

Max/Min Configuration

MX/---

--/MN

--/--

Advanced Configuration—continued

Max/Min Memory

The upper display section will indicate clr.

Use the UP and DOWN buttons to select from the following:

Automatically clear max. and min. values when the AUT0 gauge is powered off

Manually clear max. and min. values MAN

Press and release the front button to move to the next parameter. **Gauge Type Configuration**

This will only appear with 15, 100, or 200 psig ranges that were originally ordered as compound gauges.

- Use the UP and DOWN buttons to select from the following: -/+EU Vacuum is indicated as negative pressure in the
- selected engineering units
- CMPND Vacuum is negative INHG, pressure is PSIG. This setting will disable engineering unit selection.

Press and release the front button to save the user configuration and restart the gauge.

Replace the rear cover taking care not to pinch the power wires between the cover and the case.

ery Replacement

A low battery indication will be shown in the upper left-hand corner of the display when the battery voltage falls sufficiently. The battery should be replaced soon after the indicator comes on or unreliable readings may result.

- 1. Remove the 6 Phillips screws on the back of the unit.
- 2. Remove batteries by lifting up the positive end of the battery (opposite the spring) taking care not to bend the battery holder spring.
- 3. Discard old batteries properly, do not discard into fire, sources of extreme heat, or in any hazardous manner.
- 4. Always replace both batteries at the same time with high quality alkaline batteries. Install batteries with correct orientation. The negative (flat) end of each battery should be inserted first facing the battery holder spring.
- 5. Replace the back cover, including the rubber gasket.

Calibration Preparation

Gauges are calibrated at the factory using equipment traceable to NIST. There is no need to calibrate the gauge before putting it into service. Calibration intervals depend on your quality control program requirements, although many customers calibrate annually.

Calibration should only be performed by gualified individuals using appropriate calibration standards and procedures. The calibration equipment should be at least four times more accurate than the gauge being calibrated.

The calibration system must be able to generate and measure pressure/vacuum over the full range of the gauge.

A vacuum pump able to produce a vacuum of 100 microns (0.1 torr or 100 millitorr) or lower is required for vacuum and absolute gauges. Warning: application of vacuum to non-vacuum models may result in irreparable damage to the sensor.

Allow the gauge to acclimate to ambient temperature for 20 minutes

Remove the rear cover to gain access to the UP and DOWN buttons located near the lower right and left corners of the circuit board. Install fresh batteries.

Calibration

Entering Calibration Mode

With the gauge off, press and hold the DOWN button. Then press the front button. Release all buttons when the display indicates CAL.

The display begins by indicating the full-scale positive pressure rating of the gauge in the engineering units as configured by the factory, and then shows all display.

Before the gauge enters the Calibration Mode, the display initially _ with the first underscore blinking, and with CALPC indicates (calibration pass code) on the lower display.

Note: The gauge will automatically revert to normal operation if no buttons are operated for approximately 15 seconds. To cancel and return to normal operation, press and release the front button without entering any pass code characters.

Enter the User-Modifiable Pass Code

The factory default is 3510, but this is user changeable.

- 1. Use the UP or DOWN buttons to set the left-most digit to 3.
- 2. Press and release the front button to move to the next position. The 3 will remain, and the second position will be blinking.
- 3 Use the UP or DOWN buttons to select 5
- 4. Press and release the front button to index to the next position. 35 will remain, and the third position will be blinking.

Calibration—continued



- 5. Use the UP or DOWN buttons to select 1.
- 6 Press and release the front button to index to the next position 351 will remain, and the fourth position will be blinking.
- 7 Use the UP or DOWN buttons to select 0
- 8. Press and release the front button to proceed with configuration procedures.

If an incorrect pass code is entered, the gauge will return to the start of the pass code entry sequence.

Calibration Mode

The gauge enters and remains in the calibration mode until restarted manually or power is removed. Features not related to calibration are disabled and compound range models are set for the same engineering units for pressure and for vacuum.

The calibration may be performed in any of the available engineering units as well as percent (PCT). For greatest accuracy, use the UP and DOWN buttons to select engineering units for calibration with highest resolution (highest number of display counts). Press and release the front button when the appropriate engineering units are displayed. Suggested units are listed below.

Sensor	Suggested units for calibration
5 PSI	5.000 PSI
15 PSI	775.7 MMHG (TORR)
30 PSI	61.08 INHG
50 PSI	50.00 PSI
60 PSI	60.00 PSI
100 PSI	7.031 KG/CM2
200 PSI	407.2 INHG
300 PSI	610.8 INHG
500 PSI	500.0 PSI
1000 PSI	70.31 KG/CM2
2000 PSI	4072 INHG
3000 PSI	6108 INHG
5000 PSI	5000 PSI
Anv	100.00 PCT (percent)

100.00 PCT (percent)

The display will then indicate the currently applied pressure in the engineering units selected for calibration.

UP and DOWN Button Operation

Each time one of the calibration buttons is pressed and released quickly, a small change is made to the digitized pressure signal. It may take more than one of these small changes to result in a single digit change on the display.

To make larger changes, press and hold the appropriate calibration button. After about one second, the display will begin to change continuously. Release the button to stop. Then make fine adjustments by pressing and quickly releasing the calibration buttons as previously described.

Gauge Reference Pressure Gauges

Apply zero pressure by venting the gauge port to atmosphere. The character display will alternate between ZERO and CAL. Adjust for a display indication of zero using the UP and the DOWN buttons.

Apply full-scale pressure. The character display will alternate between +SPAN and CAL. Adjust for a display indication of fullscale pressure using the UP and the DOWN buttons.

Apply 50% full-scale pressure. The character display will alternate between +MID and CAL. Adjust for a display indication equal to 50% of full-scale pressure using the UP and the DOWN buttons.

Gauge Reference Vacuum Gauges

Apply zero pressure by venting the gauge port to atmosphere. The character display will alternate between ZERO and CAL. Adjust for a display indication of zero using the UP and the DOWN buttons.

Apply full-scale vacuum. The character display will alternate between +SPAN and CAL. Adjust for a display indication of fullscale vacuum using the UP and the DOWN buttons.

Apply 50% full-scale vacuum. The character display will alternate between +MID and CAL. Adjust for a display indication equal to 50% of full-scale vacuum using the UP and the DOWN buttons.

Calibration—continued Absolute Reference Gauges

Apply full vacuum to the gauge. The character display will alternate between ZERO and CAL. Press the UP and DOWN buttons to obtain a display indication of zero.

Apply full-scale pressure. The character display will alternate between +SPAN and CAL. Press the UP and DOWN buttons to obtain a display indication equal to full-scale pressure.

Apply 50% of full-scale pressure. The lower display will alternate between +MID and CAL. Press the UP and DOWN buttons to obtain an indication equal to 50% of full-scale pressure.

Compound and Bipolar Gauges

In addition to the steps described above for pressure gauges, apply full-scale vacuum. The character display will alternate between -SPAN and CAL. Adjust for a display indication of actual applied vacuum using the UP and the DOWN buttons.

For bipolar and -30.00inHg/+15.00psig compound range models only, apply 50% full-scale vacuum. The character display will alternate between -MID and CAL. Adjust for a display indication equal to 50% of full-scale vacuum using the UP and the DOWN buttons.

Save Calibration

Once the adjustments are complete, press and hold the front button until the display indicates --- then release the button to store the calibration parameters in non-volatile memory and restart the gauge

Verify the pressure indications at 0%, 25%, 50%, 75% and 100% of full scale.

Replace the rear cover taking care not to pinch the wires between the cover and the case.

User-Defined Pass Code Configuration

Remove the rear cover to access the buttons located near the lower right and left corners of the circuit board.

View or Change User Configuration Pass Code

Remove the rear cover to access the buttons located near the lower right and left corners of the circuit board.

With the unit off, press and hold the UP button, then press the front button.

Release all buttons when the display indicates CFG.

View or Change User Calibration Pass Code

With the unit off, press and hold the DOWN button, then press the front button.

Release all buttons when the display indicates CAL.

Enter Access Code 1220

Before the unit enters the view or change pass code mode, the display initially indicates with the first underscore blinking, and with CFGPC or CALPC on the character display.

Note: The gauge will automatically revert to normal operation if no buttons are operated for approximately 15 seconds.

To cancel and return to normal operation, press and release the POWER button without entering any pass code characters.

- 1. Use the UP and DOWN buttons to set the left-most digit to 1.
- 2. Press and release the front button to move to the next position. The 1 will remain, and the second position will be blinking.
- 3. Use the UP and DOWN buttons to select 2.
- 4. Press and release the front button to index to the next position. 12 will remain, and the third position will be blinking.
- 5. Use the UP and DOWN buttons to select 2.
- 6. Press and release the front button to move to the next position. 1 2 2 will remain, and the fourth position will be blinking.
- 7 Use the UP and DOWN buttons to select 0
- 8. Press and release the front button to proceed.

Note: If an incorrect access code was entered, the gauge will return to the start of the access code entry sequence.

Once the access code has been entered correctly, the display will indicate the existing user-defined pass code with CFGPC or CALPC on the character segments.

- 1. Operate the UP or DOWN button to select the first character of the new pass code.
- 2. When the correct first character is being displayed, press and release the front button to proceed to the next pass code character.

4. To exit, press and hold the front button. Release the button

5. Replace the rear cover taking care not to pinch the power wires

when the display indicates --- to restart the gauge.

3. Repeat above until the entire pass code is complete.

between the cover and the case

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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.

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

WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of 13 months from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal one (1) year product warranty to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

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.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by it will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

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 WARRANTY/DISCLAIMER 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/inc	quiries to the	OMEGA	Custome	r Service	Departmen	t. BEFO	RE RETURI	NING AN	Y PRODUCT(S) T	0
OMEGA,	PURCHAS	SER MUST	OBTAIN AN	AUTHORIZE	D RETUR	N (AR) N	UMBER I	FROM OME	GA'S CL	JSTOMER	SERVICE	DEPARTMENT (I	Ν
ORDER TO	diova c	PROCESSIN	IG DELAYS).	The assigned	I AR num	ber shoul	d then be	e marked on	the out	tside of the	e return pa	ackage and on ar	۱y
correspon	dence.												

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

PATENT NOTICE: U. S. Pat. No. 6,074,089; 5,465,838 / Canada 2,228,333; 2,116,055 / UK GB 2,321,712 / Holland 1008153 / Israel 123052 / France 2 762 908 / EPO 0614194. Other patents pending.

FOR <u>WARRANTY</u> RETURNS, please have the following information available BEFORE contacting OMEGA:

- 1. Purchase Order 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 <u>NON-WARRANTY</u> REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

- 1. Purchase Order number to cover the COST of the repair,
- 2. Model and serial number of the product, and
- 3. 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.

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