DISPLAY
The gauge has a two-line display with backlight option. The top line is a 4½-digit seven segment, numeric display with a minus sign, and the bottom line has five alpha-numeric characters. There is also a battery icon which will display the battery power level with three segments:

- No segments filled: less than 10% battery life remaining
- One segment filled: 10% to 25% battery life remaining
- Two segments filled: 25% to 50% battery life remaining
- Three segments filled: 50% to 100% battery life remaining

Notes:
(1.) When the batteries get too weak for the gauge to operate reliably, the gauge will shut off. If the gauge is turned on with batteries in this condition, the version and range display will show momentarily, but the gauge will again shut off. If the batteries are too weak the gauge will not turn on.

(2.) Over/Under pressure conditions:
If pressure is applied that exceed the gauges full scale pressure the display will read:
- top line: actual pressure to 105% (Not Blinking) a series of dashes if over 105% of full scale.
- lower line: OVER (blinking)

If vacuum is applied that exceed the gauges vacuum range the display will read:
- top line: actual pressure (Not Blinking)
- lower line: UNDER (blinking)

KEYPAD
There are five buttons on the keypad, which function as follows:

On/Off:
This button manually turns the unit on or off without regard to mode of operation. When the unit is turned on, the gauge will display, in 1 second intervals, the following start up sequence:
- firmware version
  - top line: numerical firmware rev number
  - bottom line: VER
- pressure range (Note: compound ranges shall also display the vac range.
- measure mode
  - top line: Full Scale pressure range
  - bottom line: units of measure to which the unit was calibrated.

If the “On/Off” button is pressed and held for three seconds, a menu will appear, which can be scrolled through by pressing the “On/Off” button. The menu will offer the following selections, which will be blinking to indicate a selectable option:

- NEVER (default) – The gauge will stay on until the “On/Off” button is pushed again.
- 5 MIN – The gauge will turn off five minutes after it is turned on.
- 10 MIN – The gauge will turn off 10 minutes after it is turned on.
- 20 MIN – The gauge will turn off 20 minutes after it is turned on.

A selection is made by pressing the “On/Off” button for three seconds while an option is blinking. Once a selection is made, or scrolled past “20 MIN,” the gauge will return to measure mode.

Zero/Clear:
With the gauge in the measure mode (measuring pressure), this button will zero the display provided the reading is below the lesser of 50 psi or ±5% of the pressure range (e.g. between –5 and 5 psi on a 100 psi gauge).

Min/Max:
Pressing this button will display the maximum pressure the gauge has sensed since being turned on, in the top line of the display. The bottom line will read “MAX”.
Pressing the button again will display the minimum pressure the gauge has sensed since being turned on, and show “MIN.” Pressing a third time will revert the gauge back to the measurement mode. The “MAX” or “MIN” values will be cleared by depressing the ZERO/CLEAR button with value displayed. Both values will be cleared when the gauge is turned off (manually or automatically).

Light (optional):
This button toggles the display backlight on and off. However, if this button is held for three seconds a menu will appear which can be scrolled through by pressing the “Light” button. The menu will offer the following selections, which will be blinking to indicate a selectable option:

- IMMED – The backlight will only be on while the “Light”
button is being pressed.
• 30 SEC – The backlight will turn off 30 seconds after the
  "Light" button is no longer being pressed.
• 1 MIN – The backlight will turn off one minute after the
  "Light" button is no longer being pressed.
• 5 MIN – The backlight will turn off five minutes after the
  "Light" button is no longer being pressed.
• NEVER (factory default) – The backlight will stay on until
  the "Light" button is pressed again.

Note: If while in the menu, the “Light” button is not
pressed for three seconds (to either scroll or select), the
gauge will revert back to the measurement mode. While in
this menu, pressing the “Zero/ Clear” button will also bring
the gauge back to the measurement mode. The backlight
option selected will be saved when the gauge is turned
off.

Units:
This button accesses a scrollable menu of pressure mea-
surement “unit” options: psi, Bar, kg/cm², kPa, mPa, ftH₂O,
in. Hg, mmHg, cmHg.

Note: Unit options will vary, depending on the full scale
gauge pressure. Except for vacuum only gauges, a vacu-
um will be displayed in “in. Hg” and cannot be changed.

Pressing the “Units” button once will show the first selec-
tion (blinking). Pressing the button again will show the
next blinking entry, and so on until the menu is completed.
Upon completion of the menu, pressing the button again
will exit the menu and use the last selected units.
Selection of a units option is made by pressing the “Units”
button for three seconds while the option is being dis-
played. If while in the menu, the “Units” button is not
depressed in three seconds (to either scroll or select) the
unit will revert back to the measurement mode. While in
this menu, pressing the “Zero/Clear” button will also bring
the unit back to the measurement mode. The units option
selected will be saved when the gauge is turned off.

Field Calibration:
There is one additional feature of the gauge accessible
with the keypad – field calibration.

Note: 1.4% gauges should be returned to the factory for
calibration.

Note: The gauge under calibration must be configured and
calibrated as a psi unit. If at any time the calibrator
wishes to exit this mode depress the “Zero/Clear” button.
If this process is not fully completed, No data will be
stored or used in the calculations for displaying pressure.
While in any Input mode, if no buttons are pushed
within 60 seconds, the unit will revert back to the “mea-
surement” mode.

With the unit in the “On” state depress the “Max.”, “Units” and “Zero/
Clear” buttons simultaneously for 3 seconds. This will begin the “Field
Calibration” routine.

Step 1: top line: “0”
bottom line: Flash between “INPUT” and “PS”
Apply zero psi and depress the “Units” key.

Step 2: top line: “full scale pressure”
bottom line: Flash between “INPUT” and “PSI”
Apply Full Scale psi and depress the “Units” key.

Step 3: top line: “mid scale pressure”
bottom line: Flash between “INPUT” and “PSI”
Apply mid point psi and depress the “Units” key.

Step 4: top line: Blank
bottom line: Flash “RECAL”

Step 5: Depress and hold the “Max.”, “Units” and “Zero/ Clear” buttons, the gauge will store “Field
Calibration” data and return to measure mode,
approximately 3 seconds. The unit will now
return to the measure mode and use “Field
Calibration” data to display pressure.

Restore Factory Calibration:
Note: The gauge to be restored must be configured as a
psi unit. If this process is not fully completed, No data will
be re-stored for use in the calculations of displayed pres-
sure. While in any Input mode, if no buttons are pushed
within 60 seconds, the unit will revert back to the “mea-
surement” mode.

With the unit in the “Off” State depress the “Max.”, “Units”
and depress the “On/Off” button, once the gauge begins
to initialize, release the “On/Off” key, but continue to hold
the “Max.”, “Units” buttons until the unit powers up. This
will begin the “Factory Restore” routine.

Step 1: top line: Blank
bottom line: Flash “RESTR”

Step 2: Depress and hold the “Max.”, “Units” and “On/Off”
buts, the gauge will “Re-Store” the Factory
Calibration data and return to measure mode,
approximately three seconds.

Important: The accuracy of the gauge, throughout its
range, will be affected by how accurate the pressure sup-
ply is during this calibration process. To keep the 0.5%
accuracy, your supply pressure should be at least within
0.1% of the gauge’s rated (maximum) pressure.

Note: The calibration function is only available in the units
in which the gauge was supplied. For example, if the
gauge was shipped as a PSI gauge, this function will not
appear if the user has changed the units of the gauge (for
e.g., example to Bar).
These products are not designed for use in, and should not be used for, patient connected applications.

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For warranty assistance:

USA:
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 correspondence.

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.

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.

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

1. P.O. number to cover the COST of the repair,
2. Model and serial number of product, and
3. Repair instructions and/or specific problems relative to the product.

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