User's Guide

PRESSURE RECORDER

.... LAST MEASURED VALUES ....

13.808 PSIA

| STATUS | STATS | UNITS | SETUP |

F1   F2   F3   F4

OM-CP-PR2000

Ω**OMEGA**®

OM-CP-PR2000
Pressure Data Logger
with LCD Display

Table of Contents

Section 1: Device Safety

⚠️ **CAUTION:** DEVICE MUST BE USED ONLY IN A MANNER CONSISTENT WITH THIS MANUAL.

NOTICE: WHEN 230VAC SUPPLY USED, OMEGA SPECIFIES USE OF AC SUPPLY PART # T35-9-100R-3 MANUFACTURED BY ENG ELECTRIC. THIS SUPPLY IS AVAILABLE FROM OMEGA.

1.1 Model information

- Model: OM-CP-PR2000

- Description: Pressure Logger with LCD display

- Manufactured in the USA

1.2 Specifications

Pressure
    Range: 0 to 30, 100, 300 and 500 PSIA/G, 0 to 1000 and 5000PSIA
    Resolution: 0.002, 0.005, 0.02, 0.05PSIA/G
    Calibrated Accuracy: 2% FSR, 0.25% @ 25°C typical

Dot-Matrix LCD
    Dimensions: 2.5" x 1.375" (63mm x 35mm)
    Text: Configurable channel text size
    Indicators: Power, status, memory
    Backlight: Configurable w/auto shut-off and contrast adjustment

Start/Stop Time:
    Software programmable start time and date, up to six months in advance; programmable stop time

Memory:
    262,143 total readings; software configurable memory wrap

Reading Rate:
    1 reading every 2 seconds to 1 every 24 hours

Calibration:
    Digital calibration through software

Calibration Date:
    Automatically recorded within device

Battery Type:
    6 alkaline AA batteries, user replaceable; optional AC adapter, 7-24 VDC, 100mA. For 230 VAC operation use AC supply T35-9-100 R-3 made by ENG Electric.

Battery Life:
    60 days typical with continuous screen use; 360 days with display off.

Data Format:
    Date and time stamped PSI, inHg, mmHg, bar, atm, Torr, Pa, kPa, MPa

Time Accuracy:
    ±1 minute/month (at 20° to 30°C)

Computer Interface:
    PC serial or USB (interface cable required); 115,200 baud

Software:	
Windows 95/98/ME/NT/2000/XP based software	
Operating Environment:	
-20 to +60°C, 0 to 95%RH non-condensing	
Dimensions:	
5.1" x 4.8" x 1.78" (130mm x 122mm x 45mm)	
Weight:	
40 oz (1134 g)	
Enclosure:	
Black anodized aluminum	

Section 2: Device Overview

Pressure Sensor

Power Jack

LED Indicators

PRESSURE RECORDER

Communication Jack

LCD Screen

Up Key

Okay Key

Black anodized aluminum enclosure

F1 F2 F3 F4

OM-CP-PR2000

ΩΞ OMEGA

Down Key

Function Keys

Cancel Key
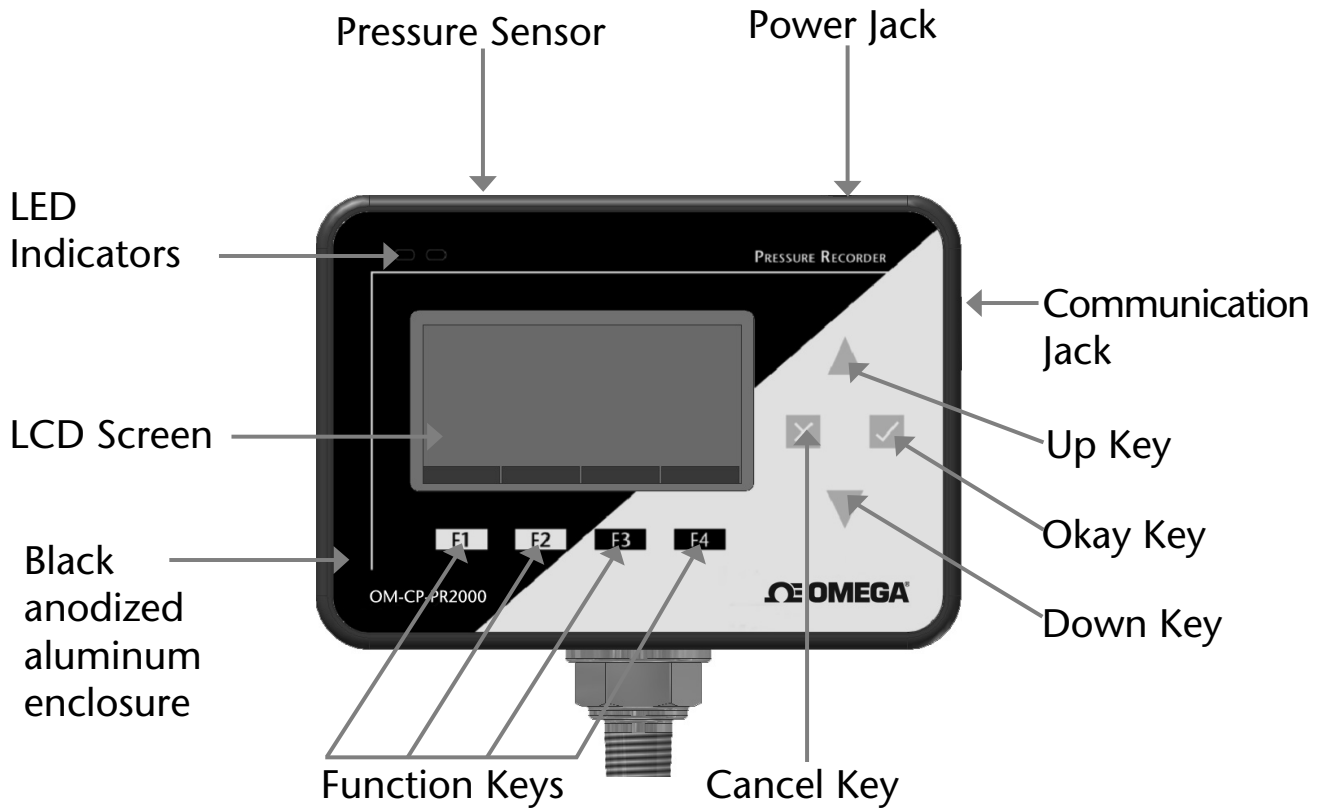
Section 3: Important Status Icons

3.1 Battery Status

**Full
Battery**   **Empty
Battery**

Battery status icons indicate the state of charge of the batteries. When the battery empty indicator is displayed, the battery should be replaced.

3.2 Memory Status

**Memory
Empty**   **Memory
Full**

*The memory status icons indicate the amount of memory left for data storage.
If the OM-CP-PR2000 is in wraparound mode, the memory status icon will always indicate empty.*

3.3 Running Indicator

Indicates that the OM-CP-PR2000 is taking readings. The icons cycle periodically.

3.4 Delay Start Indicator

The delay start icon indicates that a logging operation is scheduled for the future.

3.5 Wait Icons

The wait icon indicates that the device is busy.

3.6 Stop Icon

Indicates that the OM-CP-PR2000 is not currently taking readings.

3.7 External Power Icon

Indicates that the OM-CP-PR2000 is powered by an external source.

3.8 Reset Icon

Indicates that the device has been reset.

Section 4: Front Panel Overview

4.1 Changing the display units

The OM-CP-PR2000 comes with factory default display units of PSI for pressure and the real-time pressure graphing feature. These units can be easily changed by pressing the F3 button in the main screen and then selecting F1 for pressure or F2 for the pressure graph. After selecting the channel, the available units can be scrolled through by either pressing the channel's function key repeatedly or using the UP and DOWN keys.

Button pressing chain:
Main Screen -> F3 -> F1(pressure) or F2 (pressure graph) -> function key repeatedly or UP and DOWN

4.2 Changing the number, type, and size of channels viewed

By default the OM-CP-PR2000 displays recently measured values of the pressure channel and the real-time pressure graph on its Main Screen in a large size font. The channel and graph can, however, be hidden or viewed on a smaller or larger scale.

To change the number and type of displayed channels:
From the Main Screen, press the F4 key to enter the Setup Menu and from this menu press the F1 key to enter the Display screen. On this screen, F1 and F2 correspond to the Pressure channel and Pressure graph respectively. Pressing these function keys repeatedly will cause the channels to scroll between "show" or "hide" channels displaying "show" will appear on the main screen and channels displaying "hide" will not.

Button pressing chain:
Main Screen -> F4 -> F1 -> F1(pressure) or F2 (pressure graph)

To change the size of displayed channels:
From the Main Screen, press the F4 key to enter the Setup Menu and from this menu press the F1 key to enter the Display screen, then F4 to scroll to the next screen. Here the F2 key will change the size of the channels viewed. By pressing F2 repeatedly the size parameter will scroll between 3 sizes: small, medium, and large.

Button pressing chain:
Main Screen -> F4 -> F1 -> F4 -> F2 repeatedly to scroll

4.3 Checking the memory status

A status icon appears on all screens representing memory, but further information including percent memory left and number of readings taken can also be viewed. From the Main Screen press the F1 key to enter the Status screens then press F2 to view memory status information.

Button pressing chain:
Main Screen -> F1 -> F2

4.4 Checking power status

A battery status and external power status (if available) icon appear on all screens, but percent battery power remaining and external power presence as well as battery type, current battery voltage, and current external voltage can also be viewed. From the Main Screen press F4 to view the Device Configuration Menu, F2 to access the power options, then F4 twice to view the Power Status screen, including battery power percent remaining and the presence of external power. Battery type and battery voltage are also displayed, as well as external power voltage (if connected).

Button pressing chain:
Main Screen -> F4 -> F2 -> F4 -> F4

4.5 Changing the contrast

The OM-CP-PR2000's LCD screen contrast values can be changed in two ways. One method is outlined in the Function Reference Guide. A faster, simpler way involves simultaneously pressing the CANCEL and UP or DOWN button repeatedly in any screen.

Button pressing chain:

CANCEL + UP repeatedly (to increase) or DOWN repeatedly (to decrease)

Section 5: OM-CP-PR2000 Function Reference

5.1 Main Screen

The main screen of the OM-CP-PR2000 features a real-time display of most recently measured pressure data and a real-time graph of the 100 most recently recorded data points. At the bottom of the main screen are tabs corresponding to each of the four function keys. These tabs are used to access the four main function menus of the OM-CP-PR2000: status, statistics, units, and setup. The left side of the main screen and all subsequent screens of the device is where important status information icons can be found (detailed in Section 3: Important Status Icons – page 6) including recording status, memory status, busy status, external power status, and battery power status.

5.2 Status Menu

Pressing F1 on the main screen brings up the Status menu. The first screen that appears in the Status Menu is Run Parameters, but the Memory Status and Time screens can also be viewed by pressing the F2 and F3 keys respectively.

5.2.i Run Parameters
The Run Parameters screen displays important information regarding the device's current recording session. These parameters include the time and date the recording session started (start time and start date), the time and date the recording session will end (stop date and stop time) due to either a full memory or preprogramming in the software. The rate at which the OM-CP-PR2000 is recording (rate) is also displayed. The device's current status (either running or stopped) is the last parameter on the Run Parameters screen.

5.2.ii Memory Status
The Memory Status screen is where all information regarding the OM-CP-PR2000's memory. This screen displays the percent of memory space currently available (memory left), the number of readings currently stored on the device (readings), the maximum number of readings the device can record (max readings), as well as information about the wrap feature displaying either "disabled" or the number of wrap readings currently stored in memory.

5.2.iii Time and Date
The time and date screen displays current time data including the current time and date, time and date of last measured data, and current time zone.

5.3 Statistics Menu

Pressing the F2 key while in the Main Screen brings up the Statistics Menu. From the Statistics Menu, statistics generated from the conditions encountered by the device can be viewed in a variety of different styles including being sorted by channel and by type. The Statistics Menu also displays important statistics information as well as the option to clear the statistics at any time.

5.3.i Viewing statistics by channel
Pressing F1 while viewing the Statistics Menu brings up statistics sorted by channel. Here the F1 key provides the ability to view statistics regarding pressure. The screen displays the minimum, maximum, and average pressure values encountered by the devicel.

5.3.ii Viewing statistics by type
The OM-CP-PR2000's Statistics Menu also provides the option to view statistics by type. This can be done by pressing F2 while in the Statistics Menu. Here the function keys F1, F2, and F3 correspond to the three different types of statistics: average, minimum, and maximum respectively. Each type screen displays the values of pressure encountered by the device of the particular type.

5.3.iii Statistics Information
Pressing the F3 key while viewing the Statistics Menu screen brings up Statistics Information. This screen displays the number of readings being considered within the statistics (readings), as well as the date and time the recording period began. From this screen the statistics information can also be cleared. This is done by pressing the F1 key marked by a tab labeled "CLEAR". Upon pressing this key a confirmation message will appear with function tabs labeled "NO" and "YES" corresponding to F1 and F2 respectively. Selecting "YES" by pressing the F2 key will confirm the statistics clear function.

5.4 Units

Pressing the F3 key while viewing the Main Screen will access the Units Selection screen. Here the measurement units can be easily changed. In the Units Selection screen the F1 function key corresponds to the pressure channel and the F2 key corresponds to the pressure graph. Selecting a channel by pressing its corresponding function key allows the user to change the units by either pressing the function key repeatedly or using the UP and DOWN keys to scroll through the list of available units. Selecting OK (either by pressing the OK button or the F4 key) accepts and confirms the unit selection. Pressing the CANCEL key cancels the unit changing action and reverts to the previously selected units. The OM-CP-PR2000 offers most commonly used units.

5.5 Setup Menu

Pressing the F4 key while in the Main Screen will display the Device Configuration screen. From this menu changes can be made to most of the OM-CP-PR2000's display configuration including the screen contrast, size of the channel view in the main screen, as well as display of the channels. Power status can also be viewed including battery power remaining and the presence of external power, and options regarding the LCD and the backlight can be modified. The setup menu is also the place to find basic information regarding device identification, calibration parameters, and firmware details.

5.5.i Display

From the Display section, the number and identity of channels shown on the main screen can be changed and set, the LCD screen's contrast values can be changed and set, and the size the channel information appears on the main screen can be changed and set. Pressing F1 while in the Setup Menu brings up the Display section.

5.5.i.a Adjust Visibility

The first screen that appears in the Display section is the Adjust Visibility screen. Here the F1 and F2 key correspond to the pressure channel and pressure graph respectively. Pressing these function keys results in highlighting their corresponding channel function tab. While a channel is highlighted the corresponding display function can be toggled between "Hide" and "Show", with "Hide" indicating that the channel will not be displayed on the main screen and "Show" indicating that it will be shown. Channels can be toggled by either repeatedly pressing the channel's corresponding function key or by using the UP and DOWN keys.

Note: Use of the OM-CP-PR2000's graphing function will reduce the battery life of the device, particularly when not logging. To increase battery life either deactivate the graphing function by turning it to "Hide" in the Adjust Visibility screen, increase "auto time" in the Display Update Mode screen, or change the Graph Source from 'auto' to 'reading'. Alternatively, use the AC adapter for continuous power and graphing ability.

5.5.i.b Display Configuration

By selecting "MORE" (either by pressing the F4 key on the Adjust Visibility Screen or by pressing the OK button) in the Display section the Display Configuration screen can be viewed. Here LCD screen contrast values can be set as well as the size the channels are displayed on the Main Screen.

Contrast

To change the LCD contrast view while viewing the Display Configuration screen, first select the contrast configuration parameter by pressing the F1 key. This action will highlight the function tab corresponding to the F1 key. Once this tab is highlighted the contrast can be increased or decreased using the UP and DOWN keys.

Size

To change the size that each channel is displayed on the Main Screen view while viewing the Display Configuration screen, first select the size configuration parameter by pressing the F2 key. This action will highlight the function tab corresponding to the F2 key. Once this tab is highlighted the size can be increased or decreased using the UP and DOWN keys. Sizes include: small, medium, and large.

5.5.ii Power

The Power section displays information regarding battery and external power sources as well as giving options including display and backlight status that could potentially save power and LED status options.

5.5.ii.a Power Modes

The power modes screen displays information regarding the display, backlight and LED mode as well as the options to change their function.

Display

The OM-CP-PR2000's LCD has options to be either on continuously or turn off automatically after five minutes of inactivity. This option can be changed by first pressing the F1 key to highlight the display parameter configuration tab. Once the tab is highlighted the option can be changed by pressing the F1 key repeatedly or using the UP and DOWN keys to select either "On" or "Auto".

Backlight

Like the display, the LCD backlight also has power saving options. The backlight can be either on, off, or set to automatically shut off after 30 seconds of inactivity. This option can be changed by first pressing the F2 key to highlight the backlight parameter configuration tab. Once the tab is highlighted the option can be changed by pressing the F2 key repeatedly or using the UP and DOWN keys to select either "On", "Off" or "Auto".

LED Modes

The function of the two LEDs on the upper left corner of the OM-CP-PR2000 can be regulated by first pressing the F3 key to highlight the LED parameter configuration tab. Once the tab is highlighted the option can be changed by pressing the F3 key repeatedly or using the UP and DOWN keys to select either "Enabled" meaning the LEDs will light to indicate device function or "Disabled" meaning the LEDs will never light.

5.5.ii.b Display Update Mode

Selecting "MORE" by either pressing the F4 key or "OK" key while viewing the Power Modes screen brings up the Display Update Mode screen. On this screen, options relating to the refresh rate of the screen are displayed. The F1 key changes the refresh rate of the whole main screen and the F2 key changes the refresh rate of the graphing feature. Both parameters toggle between 'auto' and 'reading'. In 'auto' mode, the display is updated periodically according to the time displayed by the Auto Time parameter (which can be changed using the F3 key), whereas in 'reading' mode, the display only updates after a reading is taken.

5.5.ii.c Power Status

Selecting "MORE" by either pressing the F4 key or the OK key while viewing the Display Update Mode screen brings up the Power Status screen. On this screen the battery type is displayed and should be changed by the user based on whether a Lithium or Alkaline battery is used in the OM-CP-PR2000. This can be changed by first pressing the F1 button to highlight the type parameter configuration tab. Once the tab is highlighted, the battery type can be changed by either pressing the F1 key repeatedly or by using the UP and DOWN arrows to select the correct battery type. The percent battery power remaining, external power presence, battery voltage and external power voltage are also displayed on the Power Status screen.

5.5.iii Device Information

The F3 key in the Setup Menu displays the Device Information screens. Here device identification information can be found including serial number, product ID, revision, and subtype. Calibration parameters are also found under device information including the date the device was last calibrated and when it will be due for calibration again. Firmware details are also found here.

5.5.iii.a Device Range (Minimum)

The Minimum Device Range screen can be accessed by pressing the F1 key while viewing the Device Information screen. This display indicates the minimum values which the OM-CP-PR2000 is capable of detecting and logging. Values on this screen cannot be modified.

5.5.iii.b Device Range (Maximum)

The Maximum Device Range screen can be accessed by pressing the F2 key while viewing the Minimum Device Range screen. This display indicates the maximum values which the OM-CP-PR2000 is capable of detecting and logging. Values on this screen cannot be modified.

5.5.iii.c Calibration Parameters

Pressing F3 while in the Maximum or Minimum Device Range screens will display the device calibration parameters. This screen displays information indicating the most recent calibration date as well as the date the next calibration will be due.

It is important to keep your device properly calibrated to ensure accurate readings.

5.5.iii.d Device Version

Pressing the F4 key while viewing the Maximum or Minimum Device Range screens will display the Device Version screen, containing information such as firmware revision number and communications baud rate. Values on this screen cannot be modified.

5.5.iii.e Firmware Version

Firmware details can be viewed by pressing the F2 key while viewing the Device Version screens. These details include the firmware version number, date and time of firmware creation, and checksum.

Section 6: OM-CP-PR2000 Screen Descriptions

6.1 Main Screen:
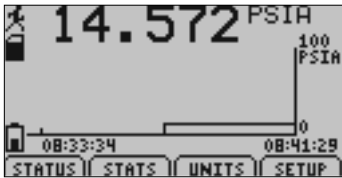
Displays last measured values.

F1 = STATUS: enters status screens
F2 = STATS: shows statistics menu
F3 = UNITS: enters unit selection screen
F4 = SETUP: enters device configuration menu
CANCEL = no function
OK = no function
UP = no function
DOWN = no function

6.2 Status Screens (Run Parameters):

Displays information about run parameters including date of recording start (start date), time of recording start (start time), stop date, stop time, recording rate, and current status.

For all status screens:

F1 = RUN: displays run parameters screen
F2 = MEM: displays memory status screen
F3 = TIME: displays date and time screen
F4 = MORE: displays ID parameters screen
CANCEL = returns to main screen

OK = returns to main screen
UP = no function
DOWN = no function

6.3 Status Screens (Memory Status):

Displays information about the device's memory capabilities including percent of memory available (memory left), number of readings taken so far (readings), max number of readings (max readings), and wrap status.

For all status screens:

F1 = RUN: displays run parameters screen

F2 = MEM: displays memory status screen

F3 = TIME: displays date and time screen
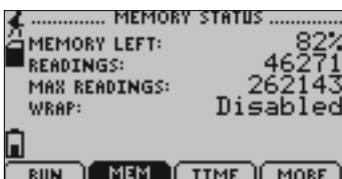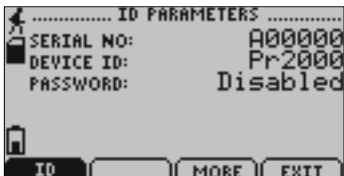
F4 = MORE: displays ID parameters screen

CANCEL = returns to main screen

OK = returns to main screen

UP = no function

DOWN = no function

6.4 Status Screens (Date and Time):

Displays current time and date as well as registered time and date and time zone information.

For all status screens:

F1 = RUN: displays run parameters screen

F2 = MEM: displays memory status screen

F3 = TIME: displays date and time screen

F4 = MORE: displays ID parameters status screen

CANCEL = returns to main screen

OK = returns to main screen

UP = no function

DOWN = no function
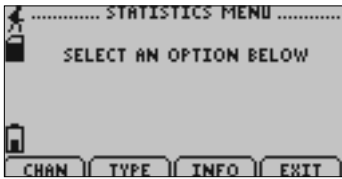
6.5 ID Parameters

Displays information relating to device identity.

For all status screens:

F1 = ID: no function

F3 = MORE: displays run parameters screen

F4 = EXIT: returns to main screen

CANCEL = returns to main screen

OK = returns to main screen

UP = no function

DOWN = no function

6.6 Statistics Menu Screen:

Displays options available within the statistics menu.

F1 = CHAN: shows statistics sorted by channel
F2 = TYPE: shows statistics sorted by type
F3 = INFO: enters Statistics Information Screen
F4 = EXIT: returns to main screen
CANCEL = returns to main screen
OK = returns to main screen
UP = no function
DOWN = no function

6.7 Channel Statistics:

Displays statistics (maximum recorded value, minimum recorded value, and average recorded value) for the pressure channel.

F1 = PRESS: Displays pressure statistics
F2 = no function
F3 = no function
F4 = EXIT: returns to Statistics Menu Screen
CANCEL = returns to Statistics Menu
OK = returns to Statistics Menu
UP = no function
DOWN = no function

6.8 Type Statistics:

Displays statistics from from the pressure channel sorted by type (maximum recorded value, minimum recorded value, or average value).

F1 = AVG: displays average recorded value for the channel
F2 = MIN: displays minimum recorded value for the channel
F3 = MAX: displays maximum recorded value for the channel
F4 = EXIT: returns to Statistics Menu
CANCEL = returns to Statistics Menu

OK = returns to Statistics Menu
UP = no function
DOWN = no function

6.9 Statistics Information Screen:

Displays current statistics information including the number of recorded readings, start date, and start time.

F1 = CLEAR: gives the option to clear all statistics
F2 = no function
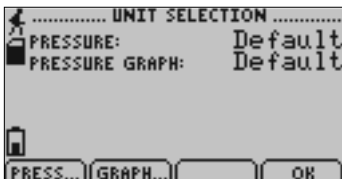**F3** = no function
F4 = EXIT: returns to Statistics Menu
CANCEL = returns to Statistics Menu
OK = returns to Statistics Menu
UP = no function
DOWN = no function

6.10 Unit Selection Menu:

Displays units currently being used for each channel

F1 = PRESS: selects pressure channel for unit change
F2 = GRAPH: selects graph feature for unit change
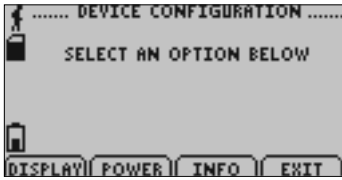**F3** = no function
F4 = OK: returns to Main Screen
Note: Unit selection can be changed by pressing the corresponding function key repeatedly or using the UP and DOWN arrows to select appropriate units.

CANCEL = returns to main menu without accepting changes
OK = accepts changes and returns to main menu

6.11 Device Configuration Menu:

Displays options available within the device configuration menu.

F1 = DISPLAY: enters Adjust Visibility screen
F2 = POWER: enters Power Modes screen
F3 = INFO: enters Device Information screens
F4 = EXIT: returns to main screen
CANCEL = returns to main screen
OK = returns to main screen
UP = no function
DOWN = no function

6.12 Adjust Visibility:

Displays options for changing the view on the main screen (either shows a particular channel or hides it).

F1 = PRESS: first highlights and then changes the viewing options of the pressure channel
F2 = GRAPH: first highlights and then changes the viewing options of the graphing feature
F3 = SOURCE: first highlights and then changes the option for how often the graphing feature will update
F4 = MORE: moves on to Display Configuration screen
CANCEL= return to Display Configuration Menu
OK = moves on to Display Configuration screen
UP = once channel parameter configuration tab is highlighted scrolls through available options
DOWN = once channel parameter configuration tab is highlighted scrolls through available options

6.13 Display Configuration:

Allows the user to change the contrast of the LCD display as well as the channel size.

F1 = CNTRST: highlights the contrast parameter configuration tab
F2 = SIZE: highlights and then changes options of the channel size parameter
F3 = MORE: moves back to the Adjust Visibility screen
F4 = EXIT: returns to Display Configuration Menu
CANCEL = returns to Device Configuration Menu
OK = moves back to the Adjust Visibility screen

UP = when contrast parameter configuration tab is highlighted increases contrast value

DOWN = when contrast parameter configuration tab is highlighted increases decreases contrast value

6.14 Power Modes Screen:

Displays information regarding the devices different power modes including the display visibility, backlight options, and LED modes.

F1 = DISPLAY: first highlights and then changes display visibility (On: full visibility or Auto: shuts off after 5 minutes of inactivity)

F2 = BKLGHT: first highlights and then changes backlight options (On: backlight always on, Auto: backlight shuts off after 30 sec of inactivity, or Off: backlight always off)

F3 = LED: first highlights and then changes LED mode options

F4 = MORE: moves to Display Update Mode screen

CANCEL = returns to Device Configuration Menu

OK = moves to Display Update Mode screen

UP = once parameter configuration tab is highlighted scrolls through available options

DOWN = once parameter configuration tab is highlighted scrolls through available options

6.15 Display Update Mode Screen:

Displays information regarding display refresh mode and refresh interval.

F1 = MODE: first highlights and then changes the screen update mode (Auto: screen refreshes periodically or Reading: refreshes only after a reading is taken)

F2 = GRAPH: first highlights and then changes the graph's source.

F3 = TIME: first highlights and then changes the amount of time associated with the Auto referesh option in "mode" and "graph mode".

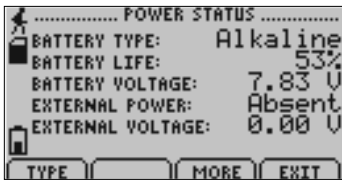**F4** = MORE: moves to Power Status screen

CANCEL = returns to Device Configuration Menu

OK = moves to Power Status screen

UP = once parameter configuration tab is highlighted scrolls through available options

DOWN = once parameter configuration tab is highlighted scrolls through available options

6.16 Power Status Screen:

Displays details about power available to the device including the battery type, battery voltage, and external voltage.

F1 = TYPE: highlights and then changes battery type (Lithium or Alkaline)
F3 = MORE: moves back to Power Modes screen
F4 = EXIT: returns to Device Configuration Screen
CANCEL: returns to Device Configuration Menu
OK = moves back to Power Modes screen
UP = if type parameter configuration tab is highlighted, scrolls through available options
DOWN = if type parameter configuration tab is highlighted, scrolls through available options

6.17 Device Information Screens (Minimum Device Range):

Displays values indicating minimum pressure detectable by the OM-CP-PR2000.

For all Device Information Screens:
F1 = MIN: no function
F2 = MAX: shows Device Range (Maximum) screen
F3 = CAL: shows Calibration Information screens
F4 = MORE: shows further Device Information screens
CANCEL = returns to Device Configuration Menu
OK = returns to Device Configuration Menu
UP = no function
DOWN = no function

6.18 Device Information Screens (Maximum Device Range):

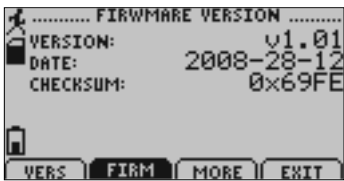*Displays values indicating maximum pressure detectable by the OM-CP-PR2000.*

6.19 Device Information Screens (Device Version):

```
┌────── DEVICE VERSION ──────┐
│ REVISION:                3 │
│ SUBTYPE:        0x00000010 │
│ BAUD RATE:          115200 │
│                            │
│ ▯                          │
│ VERS  FIRM   MORE    EXIT  │
```

Displays device version information.

F1 = VERS: no function
F2 = FIRM: shows Firmware Version screen
F3 = MORE: shows Device Range (Minimum) screen
F4 = EXIT: returns to Device Configuration Menu
CANCEL = returns to Device Configuration Menu
OK = returns to Device Configuration Menu
UP = no function
DOWN = no function

6.20 Device Information Screens (Firmware Version):

```
┌────── FIRWMARE VERSION ──────┐
│ VERSION:             v1.01   │
│ DATE:           2008-28-12   │
│ CHECKSUM:           0x69FE   │
│                              │
│ ▯                            │
│ VERS   FIRM    MORE    EXIT  │
```

Displays device firmware version information.

F1 = VERS: shows Device Version screen
F2 = FIRM: no function
F3 = MORE: shows Device Range (Minimum) screen
F4 = EXIT: returns to Device Configuration Menu
CANCEL = returns to Device Configuration Menu
OK = returns to Device Configuration Menu
UP = no function
DOWN = no function

6.21 Calibration Information Screens (Calibration Date):

```
┌────── CALIBRATION DATE ──────┐
│ CAL DATE: January 1, 2008    │
│ CAL DUE: January 1, 2009     │
│                              │
│ ▯                            │
│ DATE  TEMP...  HUMID...  EXIT│
```

Displays date of last calibration and due date of next calibration.

For all Device Information Screens:

F1 = DATE: no function
F2 = PRESS: shows pressure calibration information
F3 = no function
F4 = EXIT: returns to device information screens
CANCEL = returns to Device Configuration Menu

OK = returns to Device Configuration Menu
UP = no function
DOWN = no function

6.22 Calibration Information Screens (Pressure Calibration):

Displays calibration information for pressure channel.

For all Device Information Screens:
F1 = DATE: returns to Calibration Date screen
F2 = PRESS: no fucntion
F4 = EXIT: returns to Device Information screens
CANCEL = returns to Device Information screens
OK = returns to Device Information screens
UP = no function
DOWN = no function

6.23 Device Reset Screen (Hardware Reset):

Displayed as notification when a hardware reset has occurred.

F1 = OK: accepts notification and displays main screen
F2 = no function
F3 = no function
F4 = no function
CANCEL = no function
OK = accepts notification and displays main screen
UP = no function
DOWN = no function

6.24 Device Reset Screen (Power Interruption):

Displayed as notification when power is interrupted during device operation.

F1 = OK: accepts notification and displays main screen
F2 = no function
F3 = no function
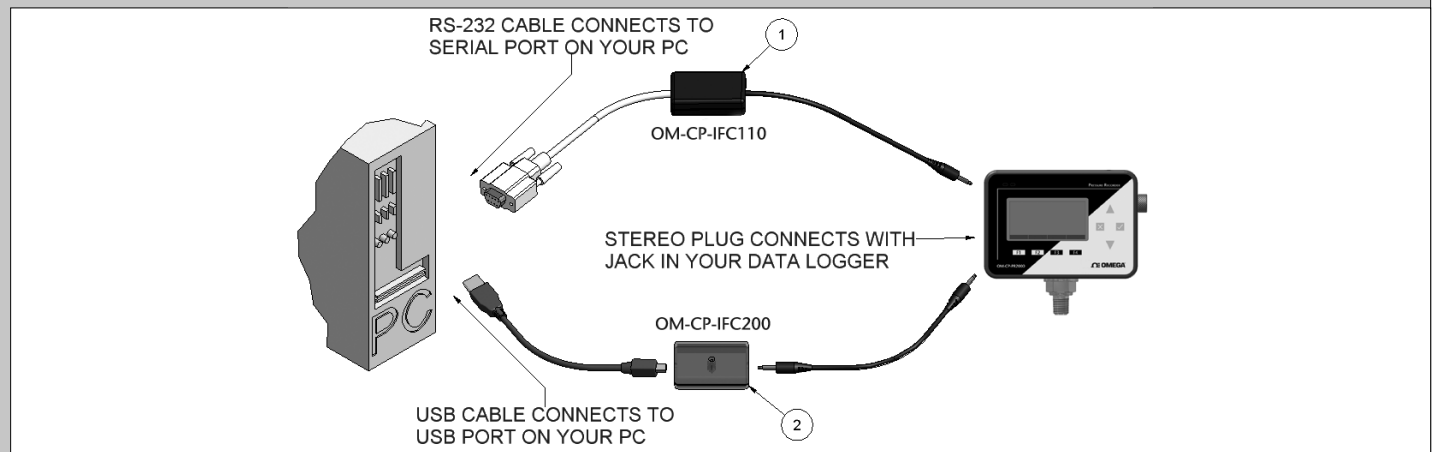**F4** = no function
CANCEL = no function
OK = accepts notification and displays main screen
UP = no function
DOWN = no function

Section 7: Computer Interface:

1. Fully insert the male connector of the OM-CP-IFC110 interface cable into the female receptacle of the data logger. Insert fully the RS232 connector into the Serial Port.

    OR

2. Fully insert the male connector of the OM-CP-IFC200 interface cable into the female receptacle of the data logger. Fully insert the female USB connector into the USB. *(Please see the OMEGA Datalogger Software manual for further information)*

Note: Most OMEGA data loggers can use both OM-CP-IFC110 and OM-CP-IFC200 interface cables. For interface cable data logger clarification contact technical support at 1-800-848-4286.