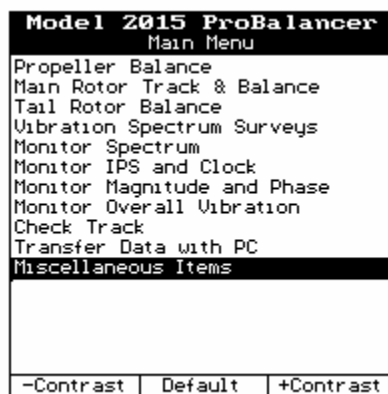
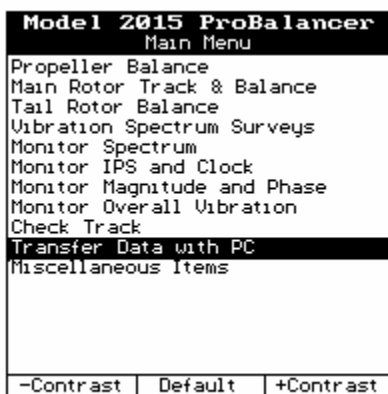

Chapter 13

Transfer Data with PC and Miscellaneous Items

(Revision 3, July 2007)

“Transfer Data with PC” and “Miscellaneous Items” are two ProBalancer functions that are accessed from the ProBalancer’s Main Menu banner screen. A description of each of these two functions follows, along with the information required to complete the menu screens within these functions, and the steps necessary to perform the functions.



13.1 - Transfer Data with PC

The “Transfer Data With PC” menu selection is used in conjunction with ACES Systems’ *AvTrend Bronze™*, *WinFlash™*, and *ACES Comm™* software programs. The Model 2015 ProBalancer Analyzer supports all these software programs.

AvTrend Bronze is the software program that accompanies the Model 2015 as the standard PC interface software. It allows the user to link between the PC and the analyzer enabling the user to update software, store data, and print reports. Data files can be found on the ACES Systems’ web page or emailed from the factory to upgrade the analyzer. Data from the field can be emailed to the factory for troubleshooting and evaluation. Reports can easily be printed on most printers attached to the PC.

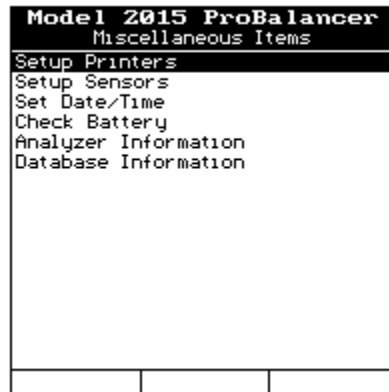
WinFlash provides a link between your PC and the analyzer so you can upgrade the analyzer software version without having to send the analyzer back to the factory. Upgrade files can be sent to you on a floppy disk or emailed to you upon request.

ACES Comm is a software program that accomplishes several tasks. It enables you to download jobs to your PC for storage only. It also facilitates the download of your current setups into a PC for storage. When the download takes place, the influence for a particular setup is upgraded to include its most recent uses. This refines the influence and further expands the ability to conduct a single run adjustment.

A user manual as well as help files accompanies each of these software programs. Refer to those sources for detailed operating instructions.

Open the appropriate PC based software. Connect the Model 2015 ProBalancer Analyzer with the supplied COMM/Print cable to the PC serial port. Select “Transfer Data with PC” from the “Main Menu” and press [ENTER]. Data transfer will begin. When finished, the “Main Menu” will reappear.

13.2 - Miscellaneous Items



The “Miscellaneous Items” banner menu screen contains several menu items, three of which are used for identification of the ProBalancer. The other items are user-accessible and editable items. All are described in the following sections.

13.2.1 - Setup Printer

Model 2015 ProBalancer		
Setup Printers		
Printer:	LaserJet (Laser)	
Quality:	Low (Fastest)	
	Horiz	Vert
Pg Margin:	1.0	1.0
Pg Size:	8.5	11.0

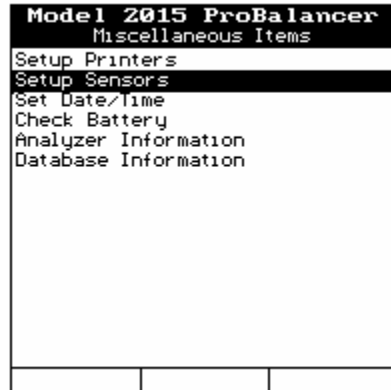
The “Setup Printer” option allows you to select from three possible printer types, three print qualities, horizontal and vertical page margins, and paper size. The ProBalancer supports Epson FX compatible dot matrix printers, Hewlett-Packard Laser Jet II or higher version Laser Jet printers, and Seiko DPU-414 thermal printers. (See your specific printer manual for Epson FX compatibility information.) The ProBalancer supports only the three listed printer types with its direct serial output. However, the ProBalancer will also support parallel printers but a serial-to-parallel print converter is required to accomplish this. The converter can be purchased from ACES Systems. ACES Systems does not provide support for difficulties in printing associated with printer converters not purchased through ACES Systems due to the large number of converters available for which we have no technical information.

Print quality is largely determined by the visual quality of spectral graphics and print desired by the user. The higher quality print takes longer for the dot matrix printer to perform. Experiment with the three quality options to determine which best fits your needs.

To complete the “Setup Printer” process, do the following:

1. Select “Miscellaneous Items” from the Main Menu banner screen.
2. Select “Setup Printers” from the “Miscellaneous Items” banner screen menu.
3. Use the [⇒] key to toggle between the three printer choices in the “Printer” field to select a printer.
4. Use the [↓] key to move down to the next field, “Quality.” Select print quality by using the [⇒] key to toggle between the choices.
5. Use the [↓] key to move down to the next field, “Pg Margin, Horiz” Enter the desired margin size using the keypad. Use the [↓] key to move to the next field in this area of the screen. Enter all dimensions in the four fields in this part of the screen using the keypad. The “Pg Margin” fields are fixed for the DPU-414 printer selection and not editable.
6. Press [ENTER] to accept your settings and exit the screen.

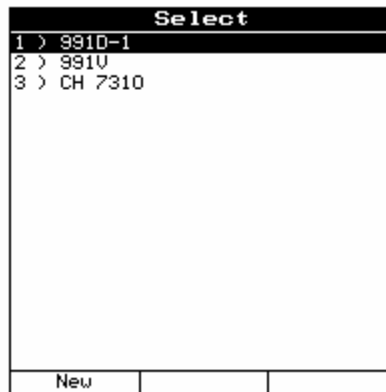
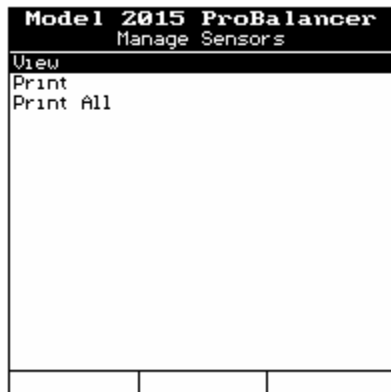
13.2.2 - Setup Sensors



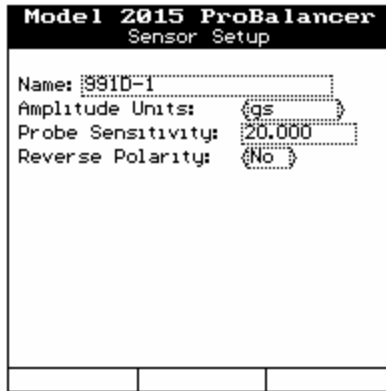
The “Setup Sensors” option allows you to view information about all the vibration sensors that are preprogrammed in the ProBalancer’s memory. These sensors are can be recalled and selected from an option list during a balance/analysis setup procedure.

The “Setup Sensors” option also allows you to view or print information on one or all the sensors in the ProBalancer’s memory. The three programmed sensors cannot be deleted, edited or added to.

To view information on sensors, choose the “View” menu item from the Manage Sensors banner screen shown below left. The Select banner screen, below right, will be displayed.



Choose a sensor to view, then press [ENTER]. The Sensor Setup information will be displayed to include the Name, Amplitude Units, Probe Sensitivity and Polarity of the selected sensor. The user cannot edit this information.



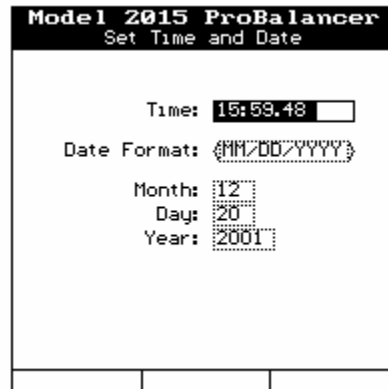
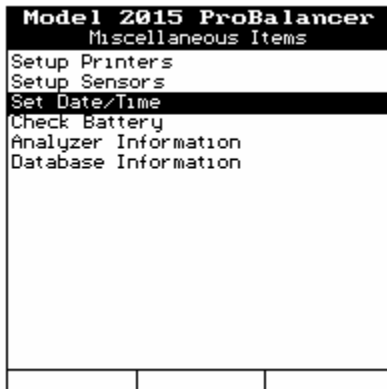
13.2.2.1 – Print or Print All

Print and Print All are all selections available on the “Manage Sensors” banner screen menu.

To access either of these functions, do the following:

1. Select Print or Print All from the “Manage Sensors” banner screen menu.
 - a. If you select “Print,” next select a sensor from the list that appears. The ProBalancer will display the message “Output to printer complete.” Press [F3] to continue.
 - b. If you select “Print All,” the ProBalancer will display a message that asks “Are you sure?” Press [F1] to confirm “Yes,” press [F3] for “No” and to return to the “Manage Setups” screen.

13.2.3 - Set Date and Time

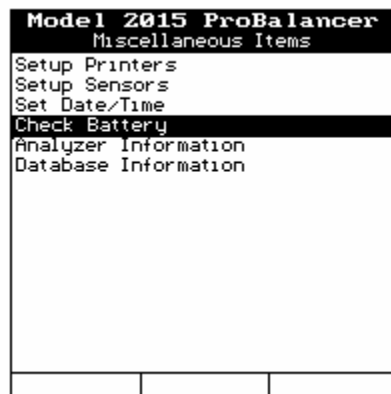


The “Set Date and Time” selection allows you to set the desired date and time in the ProBalancer. These settings are entered directly using the ProBalancer keypad.

To set the date and time, do the following:

1. Select “Miscellaneous Items” from the Main Menu banner screen.
2. Select “Set Date and Time” from the “Miscellaneous Items” banner screen menu.
3. Enter the time in a 24-hour format as follows in the “Time” field.
Hour - Valid range is 1 through 24, followed by a “.” (Decimal)
Minute - Valid range is 0 through 59, followed by a “.” (Decimal)
Seconds - Valid range is 0 through 60
4. Use the [↓] to move to the “Date Format” field. You may specify the date format you wish to use by using the [⇒] key to toggle the selection to the format you wish to use. Available formats are: MM/DD/YYYY, DD/MM/YYYY and YYYY/MM/DD, where YYYY = Year, MM = Month and DD = Day.
5. Use the [↓] key to move to the “Month” field and enter the month. Valid range is 01 through 12.
6. Use the [↓] key to move to the “Day” field and enter the date. Valid range is 01 through 31.
7. Use the [↓] key to move to the “Year” field and enter the Year. Valid range is 1998 through 9999. Press [ENTER] to accept the entries and exit the screen.

13.2.4 - Check Battery



The Check Battery function allows the user to check the remaining battery life prior to beginning a job. The current state of the battery is presented in a percentage of full charge remaining. This check is for planning purposes only but should give you sufficient information to determine if you have enough battery capacity remaining to conduct a normal

job. A fully charged, new battery should normally supply constant power to the ProBalancer using two vibration sensors and one optical tachometer for approximately 10 hours. This time will vary dependent on the number of sensors and tachometers and their power requirements. Therefore, for planning purposes, an indication of 50% should be sufficient charge remaining for 5 hours of operation.

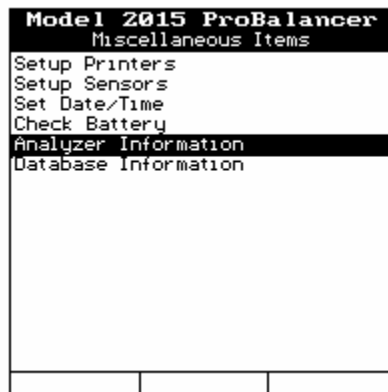
To check the battery life, do the following:

1. Select “Miscellaneous Items” from the Main Menu banner screen.
2. Select “Check Battery” from the “Miscellaneous Items” banner screen menu.
3. The ProBalancer will display the percentage of full battery charge remaining.

NOTE

We recommend the battery be charged on a regular schedule and that a job not be started with less than 50% of full charge remaining. See “Chapter 2, ProBalancer Description” for instructions on charging the battery.

13.2.5 - Analyzer Information



The “Analyzer Information” banner screen contains information about the ProBalancer and its owner. The information is entered into each individual ProBalancer at the factory at the time of purchase.

This information is significant for two reasons. If your ProBalancer is ever stolen or lost, it can easily be identified by the information contained on this screen. The information cannot be deleted or altered and remains intact regardless of the availability of power to the ProBalancer. Also, if the ProBalancer is used in a business, this information can be used as advertisement and future reference to your customers as each printout from the ProBalancer contains a header based on the information from this screen. The ProBalancer information can only be entered or changed by technicians at the ACES Systems facility. Check to insure all information on this screen is correct. If changes are required, contact ACES Systems at the phone number listed at the front of this manual.

To access the “Analyzer Information” banner screen, do the following:

1. Select “Miscellaneous Items” from the Main Menu banner screen.
2. Select “Analyzer Information” from the “Miscellaneous Items” banner screen menu.

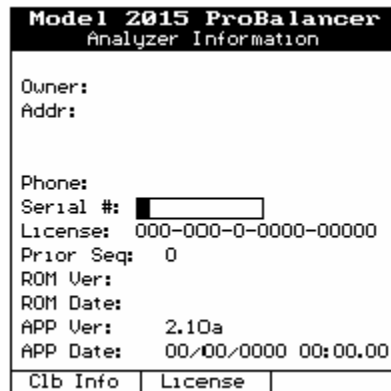
In addition to owner information, this screen displays the following information. The screen will also show:

Prior Seq - Indicates whether you have purchased a limited-use license.

ROM Ver – Indicates the version of Read Only Memory currently installed in your ProBalancer. This may also be referred to as the “BOOT ROM.”

APP Ver – Indicates the version of the currently installed application software running in your ProBalancer (The application version is upgraded by you, the user via ACES Systems’ *AvTrend* or *WinFlash* Software.).

APP Date – Indicates the date of the currently installed application software.



At the bottom of the screen, the [F1] key correlates to “Clb Info” on the screen. By pressing the [F1] (Clb Info) key, the screen will display the “Crystal” and “Pic Crystal” calibration factors. Technicians at the factory use these factors in calibration procedures as a reference. They cannot be altered in any way by the end user. Press [F1] “Clb DtTm” (Calibration date and time) again to display the date and time that the analyzer was last calibrated. Press [ENTER] to exit this screen and return to the “Crystal and “Pic Crystal” display. Pressing [ENTER] at this screen will take the user back to the “Analyzer Information” screen.

Model 2015 ProBalancer Calibration Information		
Crystal:	10.0	
Pic Crystal:	10.24	
Clb DtTm		

Model 2015 ProBalancer Calibration Date/Time		
Time:	00:00.00	
Month:	0	
Day:	0	
Year:	0	

13.2.6 – Database Information

Model 2015 ProBalancer Miscellaneous Items		
Setup Printers		
Setup Sensors		
Set Date/Time		
Check Battery		
Analyzer Information		
Database Information		

Database Information		
7 objects stored		
(7 read successfully)		
148787 bytes free		
1213 bytes in data		
		Continue

The “Database Information” selection will produce the “Database Information” banner screen. In the center of the screen the total number of objects stored and read successfully will be displayed. The total free memory (in bytes) and the total amount of stored data (in bytes) will also be displayed. This is an information (read only) screen and its contents cannot be altered by the user from within this screen. Press the [F3] “Continue” key or the [BACKUP] key to exit this screen.