



Instruction Sheet

RPM RANGER is intended to allow the user a simple, straightforward way of selecting different ranges for a given transducer. Each transducer has a corresponding disk file that contains all information pertaining to each range. The user may modify these files at any time with the understanding that the values entered directly affect the calibration and stated accuracy of the RPM.

The RPM **Ranges** window pertains to the available calibrated ranges for the RPM. The RPM **Status** window displays the current RPM setting that affect each unit. These settings are automatically read from the RPM and displayed.

Changing Ranges

- ❶ The executable file (RANGER.EXE) and all related data files (*.SEN) should be located in the same subdirectory or on the same disk.
- ❷ To change ranges for a given transducer, the following sequence of events must occur:
 - RPM must be attached to the COM1 port of the computer.
 - Required data must be read from an RPM before changing its range including the serial number and other important information. The serial number will be used to locate the appropriate data file for the RPM.
 - New range must be selected. All range specific information will be automatically written to the RPM.
- ❸ To initiate the software, type **ranger** at the DOS prompt.
- ❹ After the initial opening screen, the user is prompted to attach an RPM to the COM1 port of the computer.
- ❺ If **[ENTER]** is pressed: All required information will be read from the RPM and displayed on the screen. Press **[ESC]** or **[TAB]** and **[ENTER]** to bypass reading the RPM data.

The following **special function** keys are located on the Main Operating screen:

- R** After the data from an RPM has been read and the information from the corresponding data file has been retrieved, pressing **[R]** will display a pop-up window that allows the user to select the desired range in the current pressure unit of the RPM. The **[↑]** and **[↓]** arrow keys can be used to highlight the appropriate selection. When the desired range is highlighted, press **[ENTER]** will write this new information to the RPM.
- U** The pressure unit of the RPM may be changed by pressing **[U]**. A pop-up menu will be displayed allowing the user to select a new unit. The **[↑]** and **[↓]** arrow keys can be used to highlight the appropriate selection. When the desired unit is highlighted, pressing **[ENTER]** will write this new information to the RPM.
- N** Allows an easy way to change ranges on another RPM or re-read the current RPM data. After pressing **[n]**, the user will be prompted to attach an RPM to the COM1 port of the computer. This is the same process as described when the software is first initiated.
- E** An existing data file may be edited. See **Creating/Editing Data Files** of this instruction sheet for details on the data file and its structure.
- C** A new data file may be created if one does NOT already exist. See **Creating/Editing Data Files** of this instruction sheet for details on the data file and its structure.
- X** Pressing **[X]** will terminate the operation of the program and return the user to the DOS prompt.

Creating/Editing Data Files

Before editing an existing disk file, a file must first be selected. A pop-up window will appear and display the available disk files. The name of the desired file may be typed into the edit window or the **[TAB]** key may be pressed and the appropriate field selected using the **[↑]** and **[↓]** arrow keys. Once the proper file is highlighted, pressing **[ENTER]** will select it and the file may now be edited.

When editing or creating a data file, it is important that all information be verified prior to saving the file and this data directly affects the calibration of the RPM.

The data file is stored to the disk using the serial number of the RPM. Therefore, it is important that the serial number be entered correctly since the data file will be read automatically after the serial number is read from the RPM.

The PA (Pressure Adder) for the RPM is unit dependent. **If the pressure unit of the RPM changes:** The PA value will also change. For consistency, the PA and range values for each RPM will be stored in the same pressure unit that they are entered and converted to the appropriate unit when required. The PM (Pressure Multiplier) value is NOT unit dependent and is NOT affected by changing units.

The following keys can be used when editing or creating a data file:

- | | |
|---------------------------|--|
| [TAB] | Move the cursor to the next available edit field. |
| [SHIFT] + [TAB] | Move the cursor to the previous edit field. |
| [↑] and [↓] | Move UP or DOWN within a given range field. |
| [ENTER] | Move to the next available edit field. It is NOT possible to move to the next data field unless the previous one has been completed. |
| [ESC] | Exit the EDIT/CREATE function without changing or saving any data. |

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