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# Bodyguard 7000

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PC Link and  
Downloading  
procedures for non  
PEG technicians

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Malcolm Stanton

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## Bodyguard 7000 – PC Link and Data Downloading

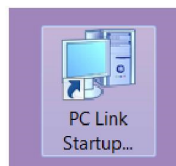


### Bodyguard Data-Link Instructions

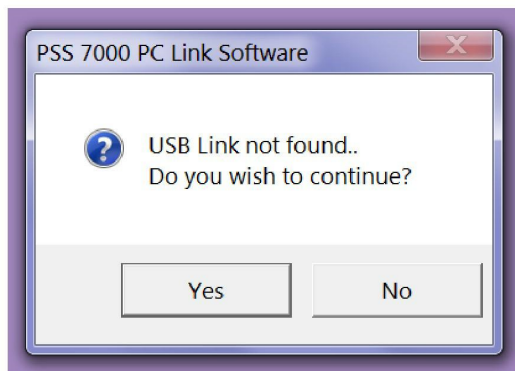
1. Insert the BG 7000 USB cradle connection into a slot on your PC



2. Locate the PSS 7000 PC Link & 'double click this icon'

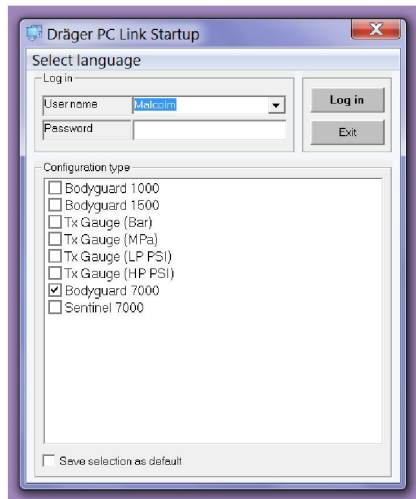


3. The message below appears if no PC to BG cable link is found. Clicking 'Yes' will allow access to the BG program only

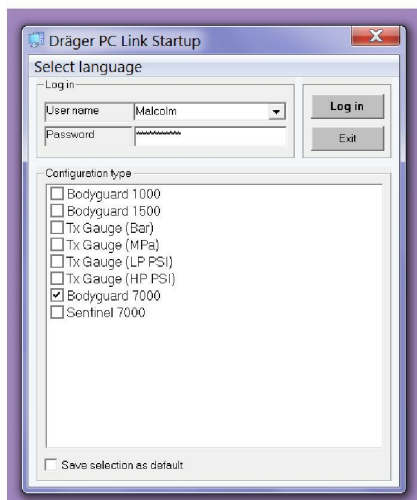


## Bodyguard 7000 – PC Link and Data Downloading

4. Locate your Log In name from the drop-down list



5. Enter your password and press 'OK'



6. The Bodyguard PC link program screen now appears



## Bodyguard 7000 – PC Link and Data Downloading

7. Insert the BG 7000 into the cradle


1<sup>st</sup> - Insert the BG  
under the lip of the  
cradle

2<sup>nd</sup> - Ensure that the BG  
hose is inserted  
between the guide at the  
bottom of the cradle

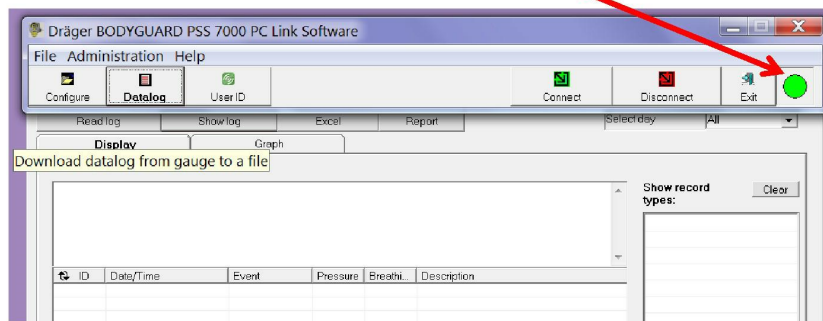


8. Switch the BG 7000 unit on by pressing the Left button



9. Click the  button to establish link with BG 7000 unit

10. Connection is established when the 'green' circle appears and....



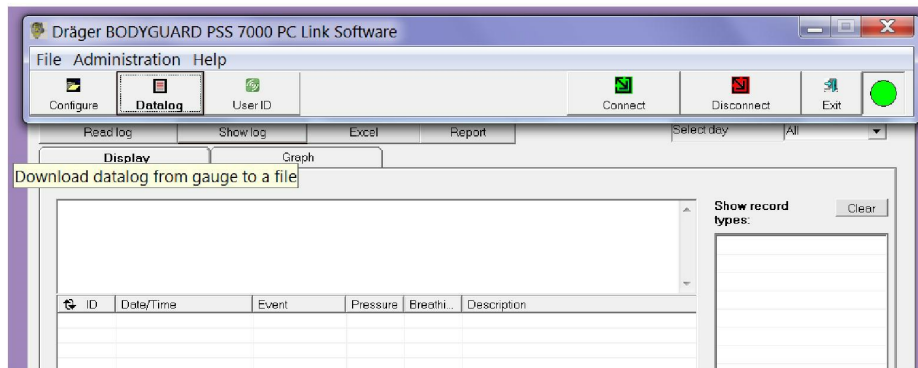


## Bodyguard 7000 – PC Link and Data Downloading

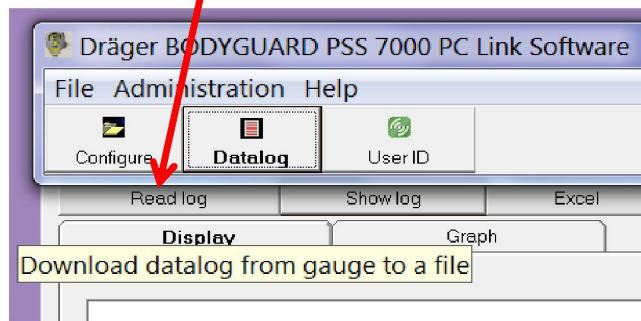
11. .... the 'double arrow' icon is displayed on the BG unit - confirming correct connection



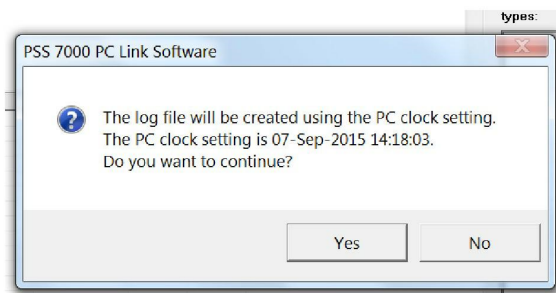
12. Locate the  tab and click on it



13. Click the  button to begin downloading from the BG 7000 unit



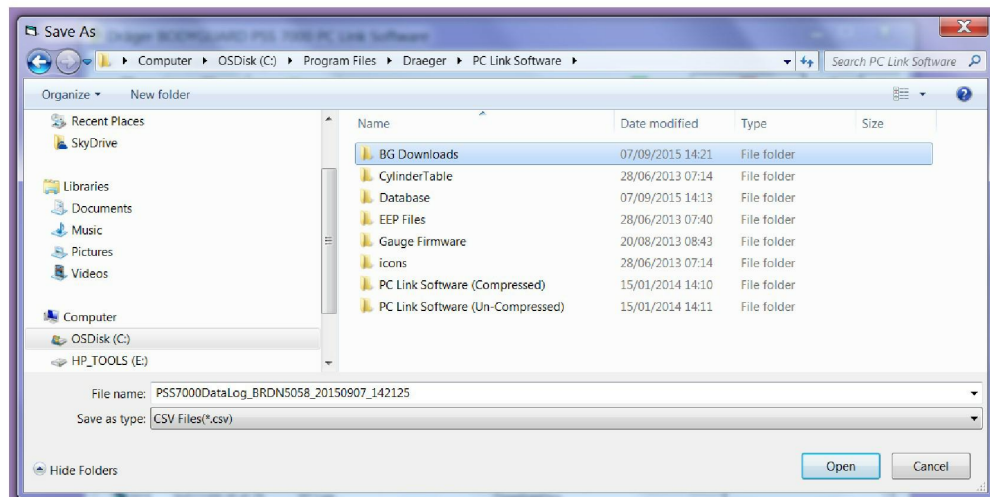
14. The following message appears to confirm the date and time of the downloaded file from the connected computer



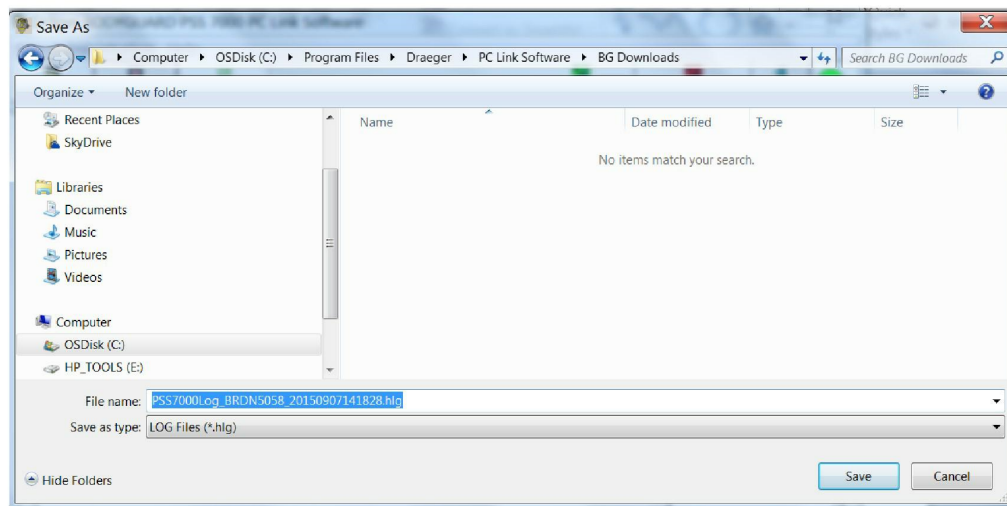
**Note:** If the connected computer Date and Time are correct - click 'Yes'

## Bodyguard 7000 – PC Link and Data Downloading

15. Locate the destination path for the saved file i.e.  
Computer - Local Disk (C:)/Program Files/Draeger/PC Link Software/BG Downloads



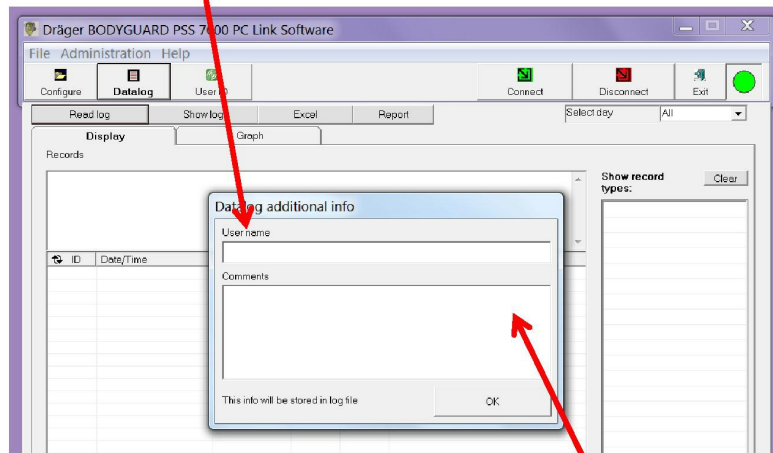
16. Within the BG Downloads folder create another folder for the Station to which the BA set is based i.e. BOW



17. Within the 'BOW' station folder - create a folder for the BA Set i.e. SDBA 741  
a. Save the file in this folder

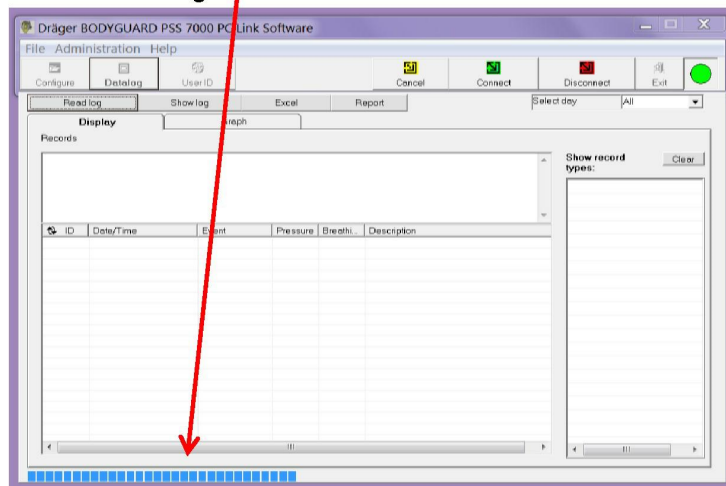
## Bodyguard 7000 – PC Link and Data Downloading

18. Insert your name (BLOCK LETTERS) in the 'Datalog additional info' - User name box.

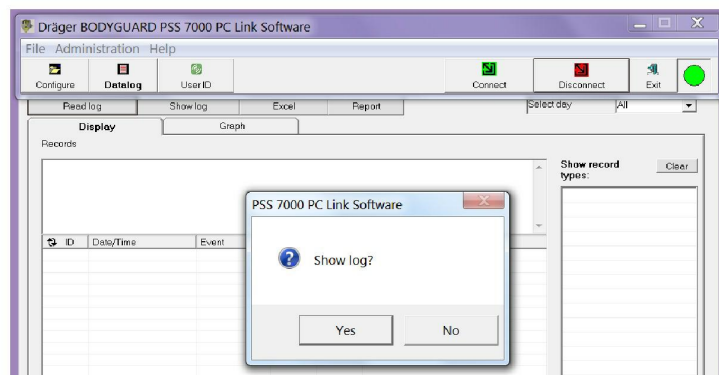


19. Add the BA set number & Station in the 'Comments' box - Press 'OK'

20. Notice the bar graph at bottom of screen (filling from Left to Right). Confirms data is transferring

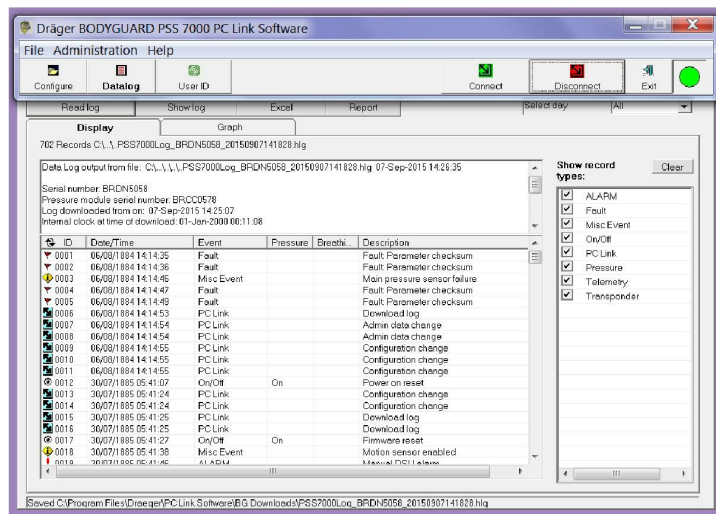


21. At the completion of the data transfer the following message appears

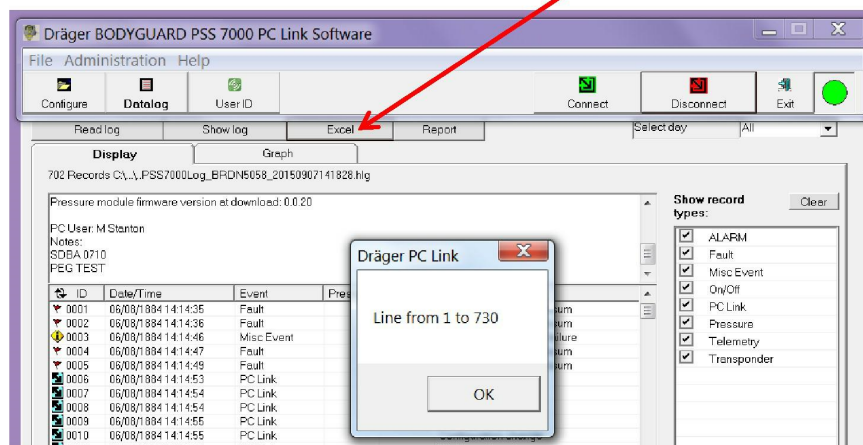


## Bodyguard 7000 – PC Link and Data Downloading

22.. Pressing 'Yes' displays the data log in the following manor

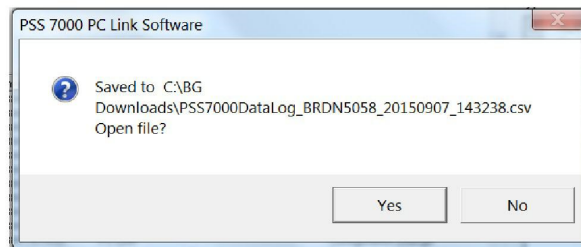


23.. You should also save the datalog as an Excel (CSV) spread sheet



Note: When you save the data log as an Excel (CSV) spread sheet – save it to the same location as the original Draeger (hlg) file

24. You will then see the screen below – giving you the option to open the saved Excel file

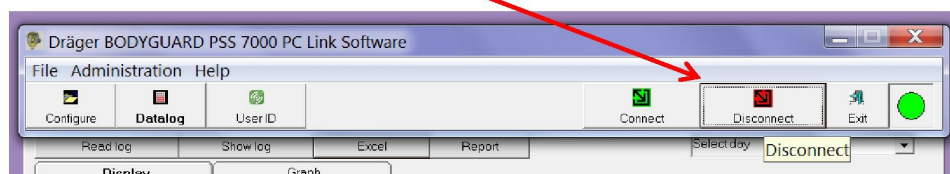


## Bodyguard 7000 – PC Link and Data Downloading

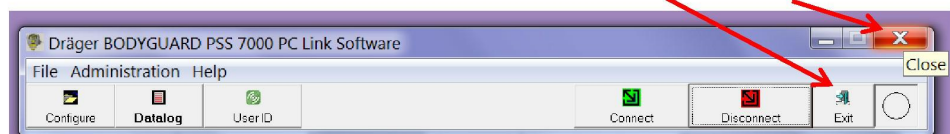
25. If you open it - the MS Excel file appears as below

A	B	C	D	E	F
1	2	3	4	5	6
2	#01 ...PSS7000Log_BRDN5058_20150907141828.hlg 07-Sep-2015 14:26:35				
3	#02				
4	#03 Serial number: BRDN5058				
5	#04 Pressure module serial number: BRCC0578				
6	#05 Log downloaded from on: 07-Sep-2015 14:25:07				
7	#06 Internal clock at time of download: 01-Jan-2000 00:11:08				
8	#07 PC Software version at download: 3.1.0				
9	#08 Firmware version at download: 01.02.17				
10	#09 Pressure module firmware version at download: 0.0.20				
11	#10				
12	#11 PC User: M Stanton				
13	#12 Notes:				
14	#13 SDBA 0710				
15	#14 PEG TEST				
16	#15				
17	#16 Data log				
18					
19	ID	Date/Time	Event	Pressure	Breathing rate
20	1	06/08/1884 14:14:35	Fault		
21	2	06/08/1884 14:14:36	Fault		
22	3	06/08/1884 14:14:46	Misc Event		
23	4	06/08/1884 14:14:47	Fault		
24	5	06/08/1884 14:14:49	Fault		
25	6	06/08/1884 14:14:53	PC Link		
26	7	06/08/1884 14:14:54	PC Link		
27	8	06/08/1884 14:14:54	PC Link		
28	9	06/08/1884 14:14:55	PC Link		

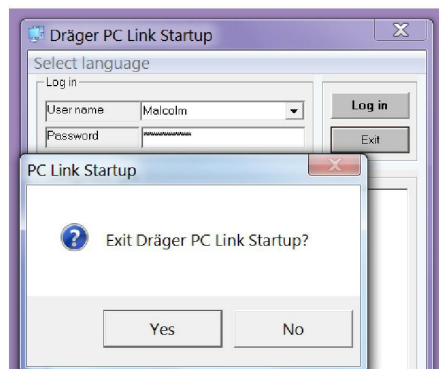
26. On completion – click the 'Disconnect' button



27. To finish with the program completely, click the 'Exit' or 'Close' buttons



28. A confirmation screen appears – click 'Yes' to close ....



## Bodyguard 7000 – PC Link and Data Downloading

29. . . . and then the BG 7000 will 'bleep' once and go through the 'Self-Check Sequence' plus the LED's will illuminate.



30. Following this sequence – 'Switch-Off' the unit by pressing and holding the left button



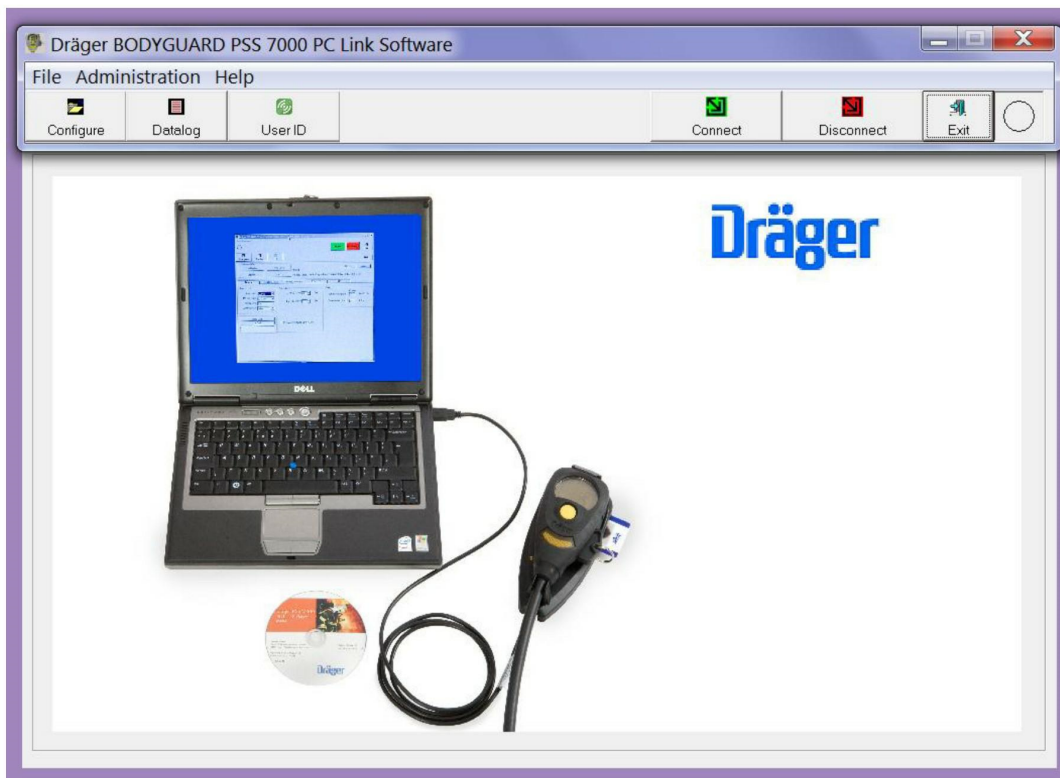
# Bodyguard 7000 – PC Link and Data Downloading

## Logging in

Access into the link software is at one of three user levels and is password controlled. The following access levels are available:

- **Standard user** – Provides the software functions to control and monitor PSS 7000 series equipment.
- **Administrator** – Provides the standard user functions and additional functions to create and manage user accounts. Administrator level users also have some advanced software setting options.
- **Service user** – Provides additional permissions and functions that are not available to administrators or standard users.

When a user has logged in, the link software displays a main window (see below) and enables the menu options described in this guide.



The information bar of the top of the main window shows the link software version and serial number.

- **File** – Opens a dropdown menu.
- **Administration** – If available opens a dropdown menu.
- **Help** – Opens a dropdown menu.
- **Configure** – Opens the configuration window
- **Data log** – Opens the data log window.
- **User ID** – Opens the user ID window.

## Bodyguard 7000 – PC Link and Data Downloading

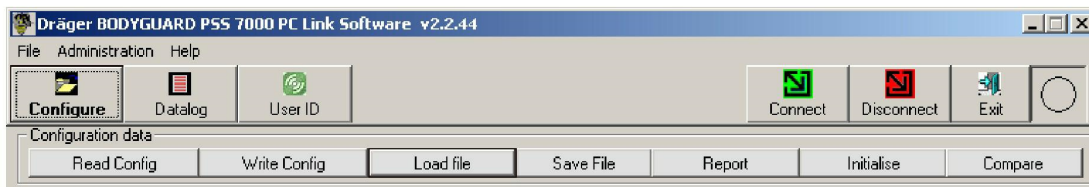
- **Connect** – Attempts to connect to the BG 7000. If successful, the status indicator adjacent to the 'Exit' button turns green (as shown below).



- **Disconnect** – Disconnects from the BG 7000 (has no effect if a BG 7000 is not connected).
- **Exit** – Closes the main window, exits the link software and disconnects a connected BG 7000.

## Configuration Window

### Configuration data buttons



- **Read config** – Attempts to connect to a BG 7000. If successful, reads the configuration settings from the BG 7000 memory and displays their values on the configuration data forms. If unsuccessful, an error box will appear.
- **Write config – PEG use only**
- **Load file** – Opens a file browser dialog box. Use the dialog box to locate a configuration file (\*.eep) to load. Select Open to load the file settings into the configuration data forms. (**PEG use only**)
- **Save file** – Opens an option box. Select Yes to open a file browser dialog box. Use the dialog box to select a file path and name for the configuration file (use the .eep file extension). Select Save to save the on-screen settings as a configuration file. (**PEG use only**)
- **Report** – Opens a file browser dialog box. Use the dialog box to select a file path and name for the configuration file (use the .txt file extension). Select Save to save the on-screen settings as a text file. The saved file opens automatically in Windows Notepad – read or close the file as required.
- **Initialise – PEG use only**
- **Compare – PEG use only**

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## Data log Window

### Data log buttons



**Read log** – Reads the data log from a connected BG 7000 memory. Allows saving to file and on-screen viewing as follows:

**Select Read log.** A PC clock time decision box opens. (Selecting No stops the operation in order to reset the time on the PC clock if required.)

- Select 'Yes' to open a file browser dialog box. Use the dialog box to select a file path and name for the Data log file (use the .hlg file extension).
- Select 'Save' to open a Data log additional info box. Enter a User name and Comments, to be stored with the Data log file, if necessary.
- Select 'OK' to save the Data log as a log file. A progress bar is shown while log is being read.
- An option box automatically opens at the end of the read process. Select the required option.

**Show log** – Reads a Data log from a previously saved file. Allows on-screen viewing as follows:

- Select 'Show log' to open a file browser dialog box. Use the dialog box to locate a Data log file (\*.hlg).
- Select 'Open' to load the file settings into the Data log window.

**Excel** – Saves an on-screen Data log file in a spread sheet (tabular) format as follows:

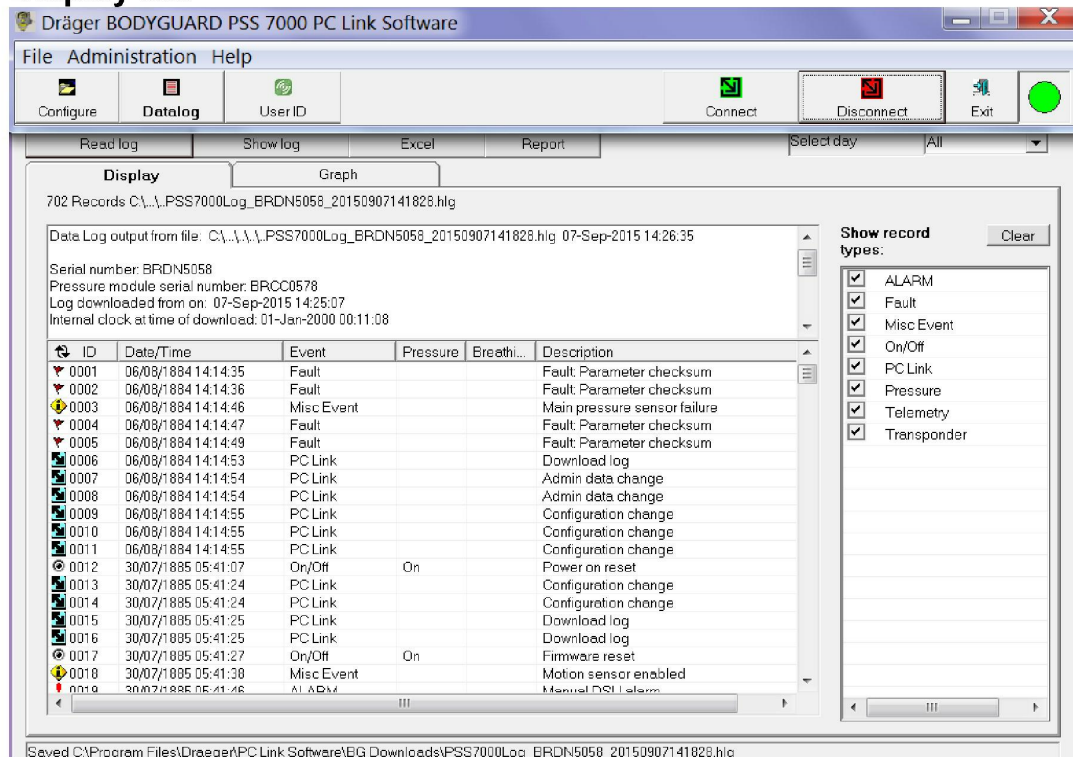
- Select 'Excel' to open a file browser dialog box. Use the dialog box to select a file path and name for the Data log file (use the .csv file extension).
- Select 'Save' to save the Data log as a CSV file. (CSV files can be opened using conventional spread sheet software, e.g. Microsoft Excel.)
- An option box automatically opens at the end of the read process. Select the required option.

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**Report** – Saves an on-screen Data log file in a text format as follows:

- Select 'Report' to open a file browser dialog box. Use the dialog box to select a file path and name for the Data log file (use the .txt file extension).
- Select 'Save' and 'OK' to save the Data log as a text (TXT) file.
- A preview file opens automatically in Windows Notepad – read or close the file as required.

### Display tab



The Display tab shows the Data log information from a connected BG 7000 memory or from a log file. File information is shown in the upper panel of the form.

Data log entries are shown, in chronological order, in the lower panel of the form.

Click on the column heading (↕) to reverse the record order.

Organise and control Data log entries as follows:

- Select or deselect tick boxes in the 'Show record type's' panel of the form to filter the data log entries. (Only the record types from the BG 7000 or log file are shown in the panel.)
- Select 'Clear/All' to quickly select or deselect all tick boxes.

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- Select a range of records by selecting the first record in the range, holding the keyboard shift key, and selecting the final record in the range (use the vertical scroll if the range is outside the visible grid).
- Select an on-to-off record range (a single incident) by double clicking on a record.
- Select a single day using the 'Select day' dropdown menu.
- Place the mouse pointer on the header-row column separators to open the column-width adjustment tool. Columns can be closed completely using the tool.
- Selected records and visible column widths will be saved using the file saving options: Excel or Report. If no records are selected, all records will be saved.

## User ID Window

The user ID window provides read and write controls for personal identity data. The data will be stored in the memory of a BG 7000.

- **Read from card** – Not used by LFB.
- **Write to card** – Not used by LFB.
- **Read from gauge** – Reads the data from a BG 7000 that is connected to the PC link module. The data is displayed on the on-screen form.
- **Write to gauge** – Writes the data from the on-screen form to a BG 7000 that is connected to the PC link module.
- **Clear** – Clears all fields on the form.

The fields are used as follows:

- Name – **DO NOT USE AFTER**
- Job – Not used by LFB
- Brigade – (Date written thus) **07 DEC 2011**
- Brigade No. – Not used by LFB
- Station No. – Not used by LFB
- Truck No. – **(BA set ID No.) 0001**
- Employee No. – Not used by LFB

At the end of the 'Self-Check Sequence' or when the BG 7000 is in stand-by mode pressing the Left or Right button will scroll the information above across the BG 7000 screen from Right to Left i.e.

**←--DO NOT USE AFTER ---- 07 DEC 2011 ---- 0001**



# Bodyguard 7000 – PC Link and Data Downloading

## Error Messages

The tables below show the possible causes and remedy actions for on-screen error messages.

Attempt the remedy actions in the order shown in the tables and retry the failed operation after each remedy action.

If the error occurs after all remedy actions have been attempted, reinstall the software from the original installation CD-ROM (contact PEG)

### Configuration read or write errors



Or



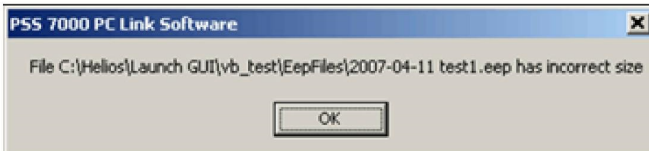
Cause	Remedy
BG 7000 error	Ensure that the BG 7000 is properly installed in the PC link module and switched on.
Faulty connection	Check that the cable is properly connected to the PC link module and the PC.
Software error	Close down and then reopen the link software.

### Cannot connect to gauge



Cause	Remedy
BG 7000 error	Ensure that the BG 7000 is properly installed in the PC link module and switched on.
Faulty connection	Check that the cable is properly connected to the PC link module and the PC.
Software error	Close down and then reopen the link software.

### Invalid file selected

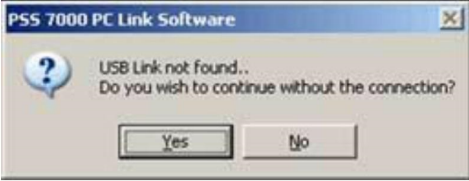




Cause	Remedy
Invalid file type or file size selected	Select a valid file type and retry.

### USB link not found



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Cause	Remedy
PC Link module is not connected to the PC	Select Yes to continue with no connection to a PC Link module.
	 If a PC Link module is connected during the work session, restart the application.  Select No to cancel the operation.