



**BASCOM-TURNER
INSTRUMENTS**

DATALINK4ACCESS

OPERATION MANUAL

OM-001-DL

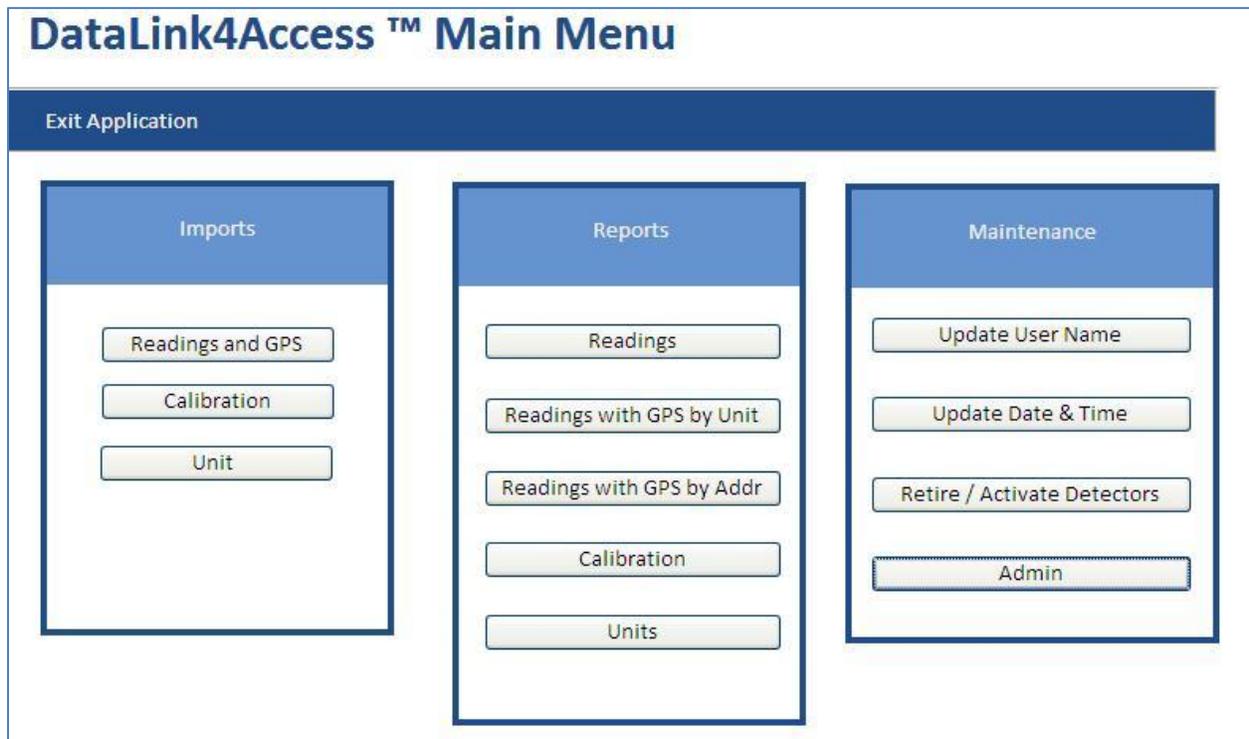
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Introduction

DataLink4Access is an intuitive, easy to use data management system that allows users to download and organize: readings, calibration, unit information and GPS data from Gas-Rovers and Gas-Explorers. Each button's operation is clearly labeled, and users can navigate from one feature to the next by closing an operation window or selecting a previously opened tab. With DataLink4Access, users can view readings data and calibration records, assign a detector to a specific user, update a detector's date and time, and manage active and retired units.

GPS enabled Gas-Rover users can use DataLink4Access to preview in Google Earth a single survey or set of bar holes, use the search by address function to view recent or historical data for a specific location, or export data for overlay on ArcGIS, MapFrame or other GIS asset maps.



System Requirements and Installation Instructions

System Requirements

In order for DataLink4Access to be installed and run optimally Bascom-Turner suggests:

1. A designated local or networked PC with Windows XP, Windows Vista or 32-bit Windows 7. DataLink4Access can be installed on 64-bit Windows 7 machines, but the operating system may interfere with some of the program's functions.
2. Full local administrator rights. In order to function, DataLink4Access must be able to call a proprietary piece of software—Dlink—as well as Google Earth. If you are unsure if you have full local administrative rights, please contact your company's IT Department.
3. At least 1.0 GB of free hard drive space.

4. Internet connection.
5. Google Earth (provided in the installation package).
6. Microsoft Access 2007 Runtime (provided in the installation package). Please uninstall any other versions of MS Access Runtime.

Installation

1. Uninstall any previous versions of DATA-LINK for Paradox.
2. Ensure that the PC is connected to the internet.
3. Insert the DataLink4Access installation disk or download DataLink4Access from Bascom-Turner's online store www.bascomturner.com/store.
4. Double click on AccessRuntime.exe to install Microsoft Access Runtime 2007. Follow Microsoft's instructions to successfully install Access Runtime. Double click on GoogleEarth.exe to install Google Earth. Follow Google's installation instructions to successfully install Google Earth.
5. Double click on setup.exe to install DataLink4Access.



6. Select "next." Enter your name and company information, and when prompted select "**Typical**" for setup type. Continue to select "next" until the installation is finished.
7. When the installation is complete a shortcut to DataLink4Access is placed on your desktop.
8. The installation process is now complete.

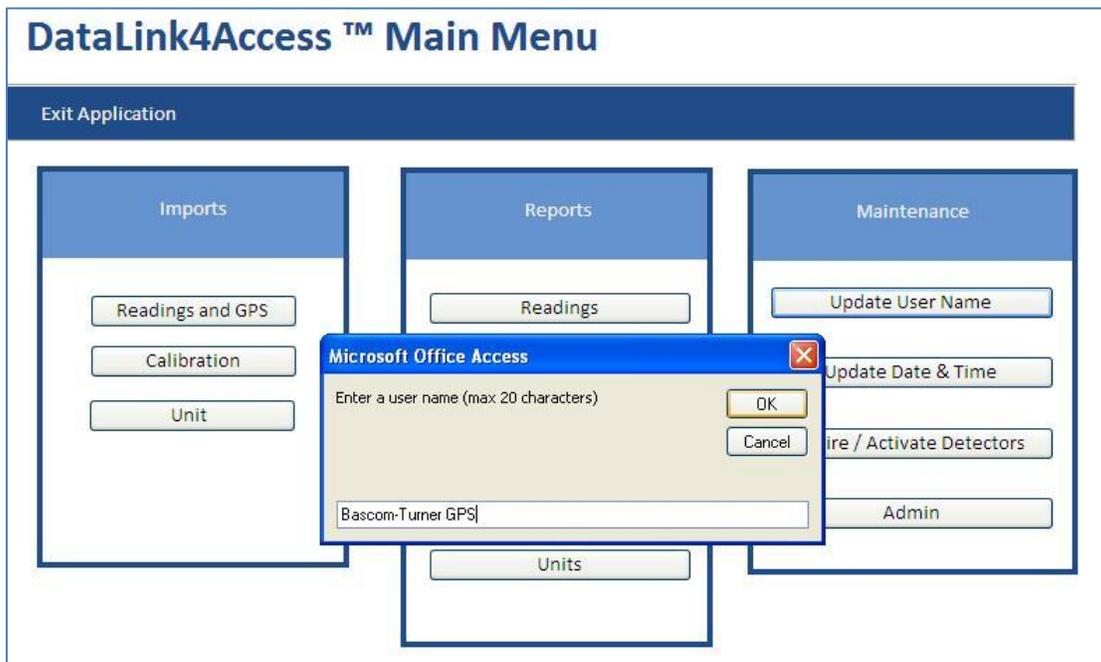
PART I. Imports

Before importing data from a Gas-Rover or Explorer, the detector must be in PC connection mode. Turn the detector on and select either “usb” or “Blue” when prompted on the second startup screen. If “usb” is selected the detector displays “PC Connection by usb” and users must then connect a USB cable to the PC and detector. If “Blue” is selected the detector displays “PC Connection by Bluetooth” only after pairing with Bascom-Turner’s Bluetooth dongle. Please note that Bluetooth enabled units communicate with Bascom-Turner’s Bluetooth dongle inserted into any USB port and do not communicate with a PC’s internal Bluetooth receiver.

Registering and Importing a Unit

In order for Gas-Rovers and Gas-Explorers to interface properly with DataLink4Access, please follow this procedure before using a unit in the field.

1. Power on the detector, enter PC connection mode, and insert the USB cable or pair with Bluetooth.
2. Update the unit’s date and time.
3. Select “Update User Name” to assign the detector to a specific user. Usernames must be 20 characters or less and cannot contain a comma. While the DataLink4Access is assigning a username to a detector, the detector’s LCD lights will flash and a status bar will appear in the DataLink4Access window. This procedure may take up to two minutes.



4. Select the “Unit” button under the “Imports” column to add the detector to your database. While the unit importing, the detector’s LCD lights flash and a status bar appears in the DataLink4Access window. Once the unit is successfully imported, a new screen opens that details the detector’s serial number, model number, sensor part numbers, software version and alarm values. To return to the main menu select “Close Window.”

5. The unit was successfully imported. Download Readings and GPS or Calibration data at your convenience.

Please note that Calibration Due Period and alarm values are not editable. To change these values on a detector, please consult the Gas-Rover or Gas-Explorer operating manual.

In addition to both the unit's serial number and user name, each unit will automatically be assigned a Unit ID number based on the order it was added to your PC. To see a detector's Unit ID number select the "Units" button in the "Reports" column.

6. Gas-Rovers and Explorers store the last 24 calibrations and 2-3 months of readings data or 1 month of readings and GPS data on its internal memory chip. To avoid overwriting and erasing data, Bascom-Turner recommends downloading readings data at least once per month.

Importing Readings and GPS Data

1. Power on the detector, enter PC connection mode, and insert the USB cable or pair with Bluetooth.
2. Select "Readings and GPS" in the "Imports" column.
3. Download all readings, or choose a specific date range. The detector's LCD lights flash and a status bar appears in the DataLink4Access window while the data is importing.

If the data import is successful, a message box displays "Readings Data Imported," or "Readings Data from Imported *date range*" followed by "GPS Data Imported" if there is GPS data on the detector. If there is not data on the detector, or data in a specified date range, a message box displays "No Readings or GPS Data to Import."

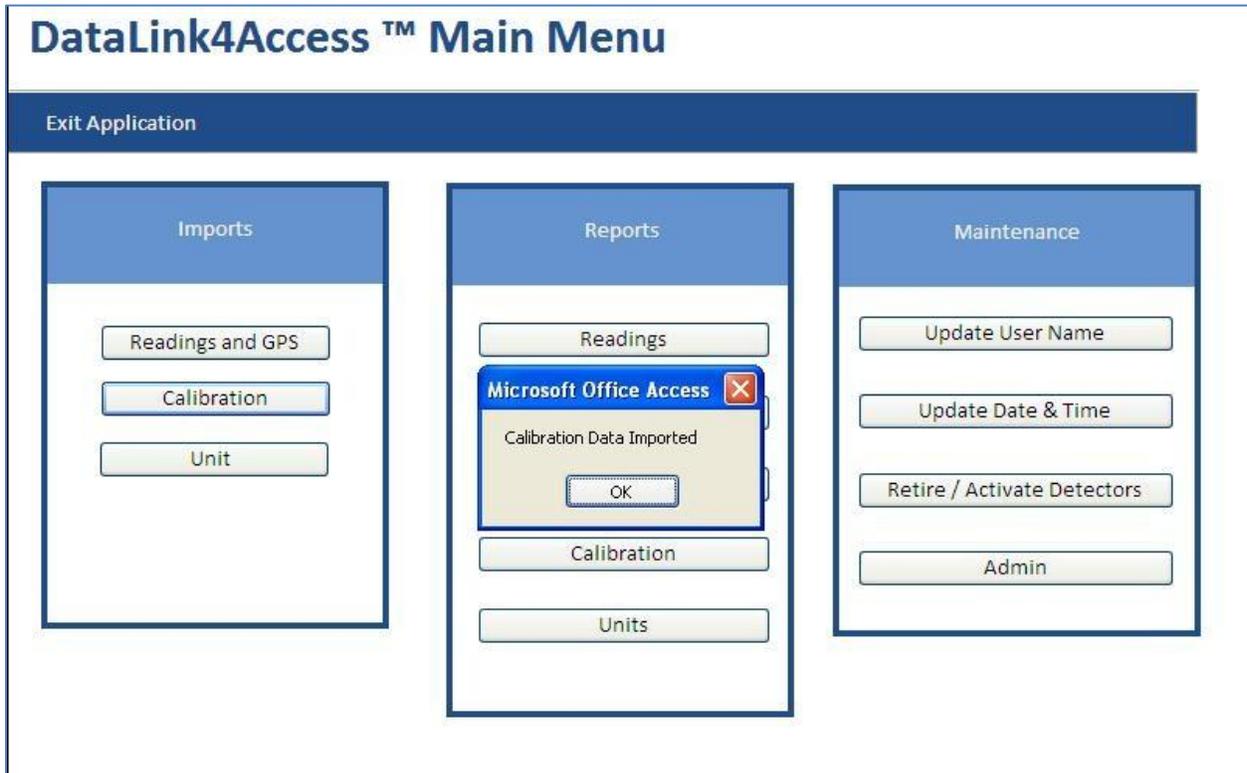
Please note that the same data can be imported multiple times without creating duplicate

entries in the DataLink4Access database.

Importing Calibration Data

All ACal and NCal calibration records stored on the detector can be imported by DataLink4Access.

1. Power on the detector, enter PC connection mode, and insert the USB cable or pair with Bluetooth.
2. Select the “Calibration” button in the “Imports” column.
3. The detector’s LCD lights flash and a status bar appears in the DataLink4Access window while the calibration data is downloading.
4. If calibration data is successfully imported, a message box displays “Calibration Data Imported.” If there is no data to import, a message box displays “No Calibration Data Imported.”



PART II. Reports

Once data has been imported, the Reports menu is the gateway to all detector readings, calibration history and unit reports. If data appears to be missing, please try re-importing that data or consult the trouble shooting section of this manual.

Readings

Readings reports allows users to access all of the detector's readings data on a PC. The raw data can be viewed, filtered and sorted on the "All Data By Unit" screen, or printed to create formal Data and Bar Hole reports. All data is stamped with time, date, mode of operation and alarm values.

To view readings follow this procedure:

1. Ensure that the data was imported from the detector.
2. Select the "Readings" button in the "Reports" column
3. Select a detector and adjust the date range. DataLink4Access automatically inputs the detector's min date and max date as its respective begin and end date. A date range can be as large as all available data or as small as a single day. When a date box is selected, a calendar icon appears. Choose a specific date or manually enter the day, month and four digit year. The smaller the date range the faster the readings report loads. When search parameters are satisfactory, select the "Display Readings Report for a Selected Unit" button. While the data is loading, a progress bar appears.

Unit ID	Serial Number	User	Model Number	Min Date	Max Date
1	0934-401726	Bascom-Turner 1	VGC-301	12/15/2009	5/11/2011
2	1009-401892	Bascom-Turner GPS	VGC-301	3/14/2011	5/6/2011

4. Data for the specified search is displayed on the following screen. Data can be filtered by seconds, minutes or hours and sorted by date, time and concentration of gas.

All Data by Unit and Date Range Report Exit Readings Details

Unit Serial Number: 1009-401892
 Entire Date Range: 3/14/2011 - 5/6/2011
 Selected Date Range: 3/21/2011 - 3/25/2011
 Reported Date Range: 3/21/2011 - 3/24/2011

Data Filtering

Time Slice

Seconds (All Data)
 Minutes
 Hours

Duration

One Minute
 One Hour
 One Day
 All

Date	Time	Mode	PPM Gas	Percent LEL	Percent Gas	PPM CO	PPM H2S	Percent O2	LEL/Gas Alarm
22-Mar-11	10:26:11 AM	Survey	0	0	0	0	0	0	
22-Mar-11	10:26:12 AM	Survey	0	0	0	0	0	0	
22-Mar-11	10:26:13 AM	Survey	0	0	0	0	0	0	
22-Mar-11	10:26:14 AM	Survey	0	0	0	0	0	0	
22-Mar-11	10:26:15 AM	Survey	0	0	0	0	0	0	
22-Mar-11	10:26:16 AM	Survey	0	0	0	0	0	0	
22-Mar-11	10:26:17 AM	Survey	12	0	0.0012	0	0	0	
22-Mar-11	10:26:18 AM	Survey	43	0	0.0043	0	0	0	

- To print data, select the “Data Report” or “Bar Hole Report” button. A data report is a printer friendly version of the filtered and sorted data from the previous screen. A bar hole report is a printer friendly summary of peak and sustained readings for all bar-hole data in the search area.

Bar Hole Data Thursday, May 12, 2011
2:10:42 PM

Exit Report

Unit ID: 2 Date Time Range: 5/12/2011 2:05:34 PM - 5/12/2011 2:06:42 PM
 Serial Number: 1009-401892
 User Name: Bascom-Turner GPS

Date	Time	Peak %Gas	Sust %Gas
5/12/2011	2:05:34 PM	82.4	61.53
5/12/2011	2:06:26 PM	37.6	26.60

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6. To print, select the “Ctrl” key followed by “P” on your keyboard, or “Print” under “Access Tools” at the top of the DataLink4Access window.

Unit ID: 4
Serial Number: 1125-402127
User Name: BT Demo

Date Time Range:
6/14/2011 11:00:00 AM - 8/29/2011 5:00:00 PM

Date	Time	Peak %Gas	Sust %Gas
6/14/2011	11:58:12 AM	0	0.00
6/14/2011	12:01:32 PM	1.3	0.00
6/15/2011	11:04:53 AM	0	0.00
8/9/2011	4:48:47 PM	0	0.00

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Readings with GPS by Unit

The “Readings with GPS by Unit” feature allows users to access all GPS survey and bar hole data. From this section, users can view a single survey or day’s worth of bar holes in Google Earth, expand data to see second by second readings data and HDOP values, or export a survey as a TXT, GPX, XML or KML file for overlay on GIS asset maps or other GPS devices.

Previewing Surveys in Google Earth

1. Ensure that the readings and GPS data has been imported and that the PC has an internet connection. Google Earth will not function without an internet connection.
2. Select the “Readings with GPS by Unit” button in the “Reports” column.
3. Select a detector and enter the desired date range. DataLink4Access automatically inputs the detector’s min date and max date as its respective begin and end dates. Date ranges can be as large as all available data or as small as a single day. When a date search box is selected, a calendar icon appears. Choose a specific date or manually enter the day, month and four digit year. The smaller the date range the faster the report will load. When search parameters are satisfactory, select the “Display Survey Data by Unit and Date Range” button. While the data is loading, a progress bar appears in the DataLink4Access window.

Please note, if high concentrations of gas were encountered during survey and the surveyor was required to bar hole, or if the unit auto-ranged to monitor mode, a single day’s survey could be divided into many segments. To display a full day’s worth of surveying opposed to many smaller segments, change the “Min. Gap Between Surveys” field. DataLink4Access’s minimum gap between surveys is preset to five minutes. To change the value, type in a new value and press the “Enter” key to proceed. A window will appear asking the user to confirm their selection.

The screenshot shows the 'Date Range and Unit Selection' window. The 'Min. Gap Between Surveys (minutes)' field is highlighted with a red circle and contains the value '10'. Below the window is a table with the following data:

Unit ID	Serial Number	User	Model Number	Min Date	Max Date
2	1009-401892	Bascom-Turner GPS	VGC-301	3/14/2011	5/12/2011

A 'Confirmation' dialog box is displayed over the table, with the following text:

Changing the minimum gap between surveys helps determine the length of each survey.
If you are not satisfied with the results, return to the Date Range and Unit Selection screen and reset the gap to the default value of 5 minutes.
Set Minimum Gap to 10 minutes?

Buttons: OK, Cancel

Please note that the “Min. Gap Between Surveys” value is saved even after DataLink4Access is closed. To readjust to the default of a different value, enter a new value to the field and select “OK.”

- The following screen lists all the detector’s GPS surveys. The data filters allow users to plot PPM above a specified value and filter out high HDOP readings. HDOP, or Horizontal Dilution of Precision, is a measure of GPS accuracy. HDOP values above 3.5 may be spurious, and can distort the accuracy of a survey.

Serial Number	User	Date	Start Time	Duration(hh:mm)	MaxPPM	MinHDOP	MaxHDOP
1125-402127	BT Demo	8/29/2011	3:56:48 PM	0:07	61	1.3	3.6
1125-402127	BT Demo	8/9/2011	11:17:57 AM	0:12	5	0.8	1.6
1125-402127	BT Demo	6/28/2011	11:52:03 AM	0:00	0	1.6	1.6
1125-402127	BT Demo	6/14/2011	11:57:18 AM	0:00	0	1.6	1.6

To view raw survey data with gas readings, GPS coordinates and HDOP values, select “View Detailed Data for 1 Survey” or “View Detailed Data for All Surveys.”

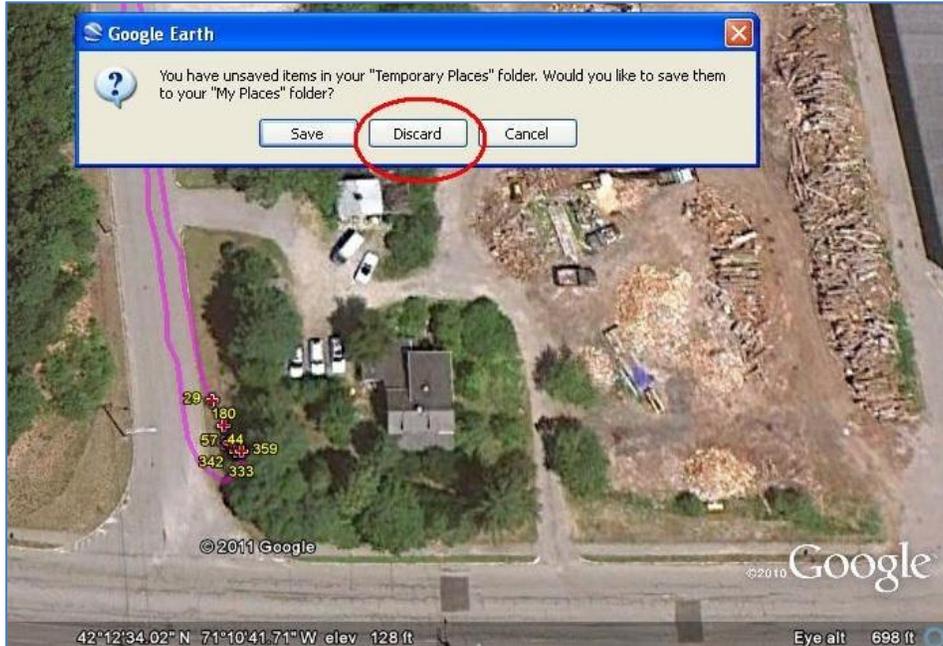
- After the appropriate data filters are applied, highlight the desired survey and select “Plot Selected Survey in Google Earth.”



The surveyor’s path is marked in purple and leaks are marked with red crosses. Many times, leaks are stacked on top of one another. To expand any leak readings, place the

cursor over a group of leaks until Google Earth's white hand transforms to a cross. Click to expand. The leak readings contracts when the cursor is moved away from the leak.

6. If desired, use Google Earth to save the survey as an image (".jpg") for printing or archiving. (Select File → Save → Save Image).
7. Exit Google Earth. When closing Google Earth, users are prompted to save the survey in their "My Places" folder. Please select **Discard**.



Previewing Bar Holes in Google Earth

1. Ensure that the readings and GPS data has been imported and that the PC has an internet connection. Google Earth will not function without an internet connection. Select the "Readings with GPS by Unit" button in the "Reports" column. Select a detector and enter the desired date range. DataLink4Access automatically inputs the detector's min date and max date as its respective begin and end date. Date ranges can be as large as all available data or as small as a single day. When a date search box is selected, a calendar icon appears. Select the calendar icon to choose a specific date or manually enter the day, month and four digit year. The smaller the date range the faster the report loads. When search parameters are satisfactory, select the "Display Survey Data by Unit and Date Range" button. While the data is loading, a progress bar appears in the DataLink4Access window.
2. The following screen lists all GPS bar-hole data for the specified date range.

Bar-Hole Data by Unit and Date Range Report

Close Window

Data Filter

- List All
- Selected Day
- Selected Bar-Hole

Display All Bar-Holes in Google Earth

Display Real-time Data for Selected Bar-Hole

Display Real-Time Data for All Bar-Holes

Export Displayed Bar-Holes to Text File

Export Displayed Bar-Holes to GPX File

Export Displayed Bar-Holes to XML File

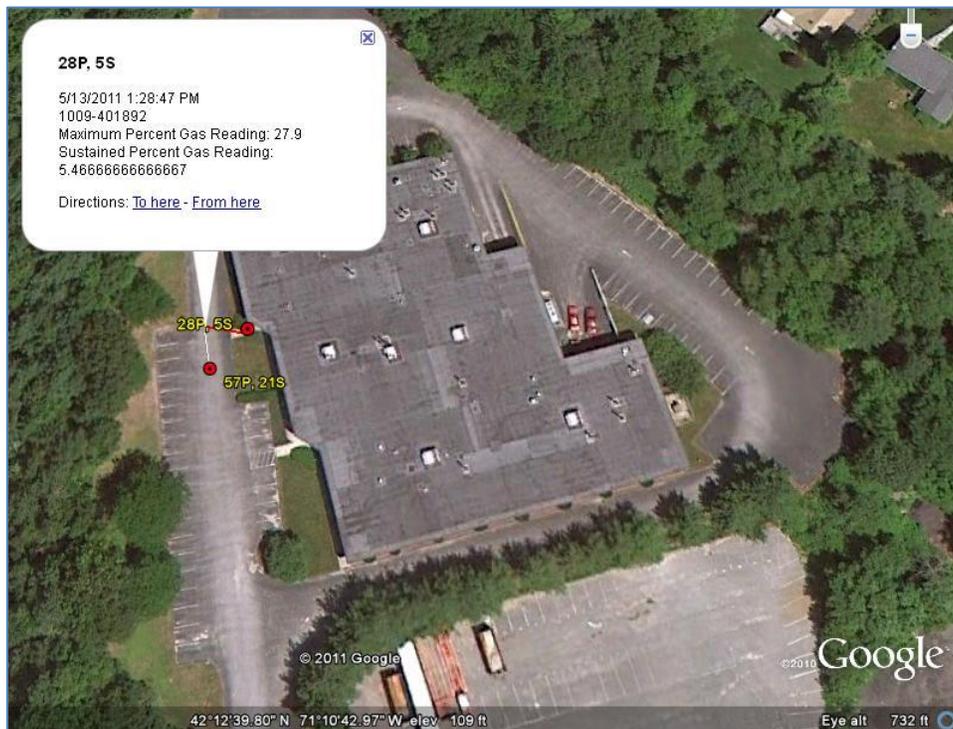
Export Displayed Bar-Holes to KML File

Unit Serial Number	User	Date	Start Time	Duration	Peak Gas	SustGas	HDOP	Latitude	Longitude
1120-402101	BT GPS Demo	9/14/2011	1:44:25 PM	59 seconds	68.1	0	2.6	42.21106	-71.17874
1120-402101	BT GPS Demo	9/14/2011	1:45:45 PM	60 seconds	51.8	13.9	2.6	42.21106	-71.17874
1120-402101	BT GPS Demo	9/14/2011	1:47:07 PM	60 seconds	77.3	31.9	2.6	42.21104	-71.1787
1120-402101	BT GPS Demo	9/14/2011	1:48:24 PM	59 seconds	55.1	20.5	2.6	42.21108	-71.17875

To view raw survey data of all gas readings, GPS coordinates and HDOP values, select “Display Real-time Data for Selected Bar-Hole” or “Display Real-time Data for All Bar-Holes.”

Please note that Google Earth plots all bar-holes displayed in the spreadsheet. To plot a single bar-hole, or set of bar-holes, apply the necessary data filters.

- After the appropriate data filters have been applied, select “Display All Bar-Holes in Google Earth.”



Bar-holes with gas readings are marked in red, bar-holes with no gas readings are marked in black. Bar-holes are usually stacked on top of each other. To expand a set of bar-holes, place the cursor over the set until the Google Earth white hand transforms to a cross. Click to expand. To select detailed readings for a single bar hole, expand any bar holes with the cross and then select an individual bar hole with the cursor.

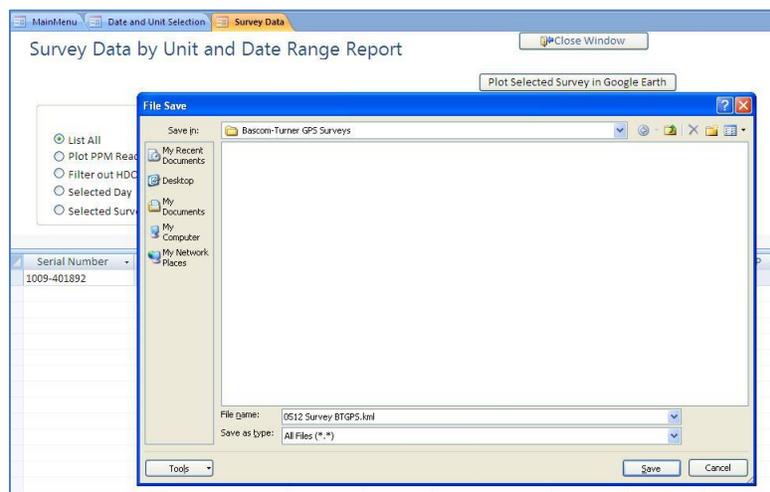
4. If desired, use Google Earth to save the survey as an image (“.jpg”) for printing or archiving. (File → Save → Save Image).
5. Exit Google Earth. When closing Google Earth, users are prompted to save the bar-hole set in their “My Places” folder. Please select **Discard**.

Exporting Surveys and Bar Hole Data as Text, GPX, XML and KML Files

1. Follow the steps for “Previewing Surveys in Google Earth” through step four.
2. From the “Survey Data by Unit and Date Range Report” highlight a single survey. If desired, preview the survey in Google Earth.

Or for bar-hole data:

1. Follow the steps for Previewing Bar Holes in Google Earth through step four.
2. DataLink4Access exports bar-hole data displayed in the spreadsheet below. If desired, preview the bar-hole data in Google Earth.
3. Select the appropriate file extension to export the survey—for example KML—name the survey, choose a directory and select “Save.”



4. If necessary, repeat for different file extensions.

Readings with GPS by Address

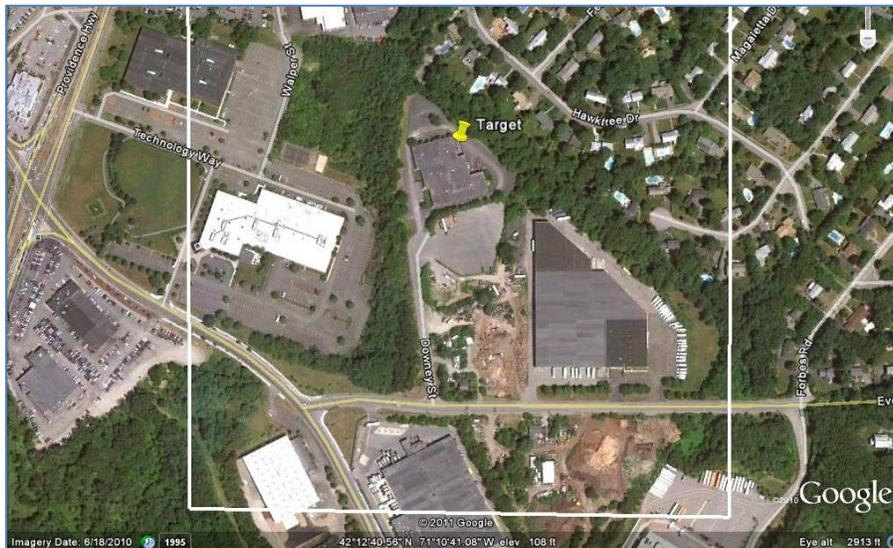
The “Readings with GPS by Addr” feature allows users to access all GPS survey and bar-hole data for a particular address. With this feature, users can view a specific location’s survey or bar-hole data in Google Earth, expand data to see second by second data with readings data and HDOP, or export a survey as a TXT, GPX, XML or KML file for overlay on other GPS or GIS systems.

Previewing Surveys by Address in Google Earth

1. Ensure that the readings and GPS data has been imported, and that the PC has an internet connection. Google Earth will not function without an internet connection.
2. Select the “Readings with GPS by Addr” button from the “Reports” column.
3. Enter a date range, address and search area. Bascom-Turner recommends entering a full address with city, state and five digit zip code. If North/South and East/West search area boxes are left blank, DataLink4Access automatically uses a 0.1 x 0.1 mile search area around the address.

Unit ID	Serial Number	User	Model Number	Min Date	Max Date
2	1009-401892	Bascom-Turner GPS	VGC-301	3/14/2011	5/20/2011
4	1120-402101	Bascom-Turner GPS 2	VGA-411	5/20/2011	5/27/2011

4. Preview the search region in Google Earth.



The address is marked with a yellow pin, and the search area with a white box. If satisfied with the search area, minimize Google Earth.

If you are not satisfied with the search area, exit Google Earth. When prompted select “**Discard**” and enter a new address or search area.

5. Select “Display All Survey Data in Address and Date Range.” Please note that DataLink4Access will search for every reading from every detector within the date range

to see if there is data within the search area, so the smaller the date range, the faster the data will load.

6. All survey data for the address and date range is displayed in the table below. Adjust data filters and select a survey to preview in Google Earth.



The surveyor's path is marked in purple and leaks are marked with red crosses. Only survey data within the white search area is displayed. If the survey data appears to be cut off or missing, close Google Earth, when prompted select "**Discard**," and return to Step 3 and adjust the address or search area.

7. If desired, use Google Earth to save the survey as an image (".jpg") for printing or archiving. (File → Save → Save Image).
8. Exit Google Earth. When closing Google Earth, users are prompted to save the survey in their "My Places" folder. Please select **Discard**. If users select "Save," the survey is saved in Google Earth's "My Places" folder and will always be displayed when Google Earth is open. If this problem occurs, please refer to the trouble shooting section of this manual.

Previewing Bar-Holes by Address in Google Earth

1. Follow the steps for previewing a survey by address through step four.
2. Select "Display All Bar-Hole Data in Address and Date Range."
3. This screen lists all GPS bar-hole data in the specified date range and search area.

Unit Serial Number	User	Date	Start Time	Duration	Peak Gas	SustGas	HDOP	Latitude	Longitude
1120-402101	BT GPS Demo	9/14/2011	1:44:25 PM	59 seconds	68.1	0	2.6	42.21106	-71.17874
1120-402101	BT GPS Demo	9/14/2011	1:45:45 PM	60 seconds	51.8	13.9	2.6	42.21106	-71.17874
1120-402101	BT GPS Demo	9/14/2011	1:47:07 PM	60 seconds	77.3	31.9	2.6	42.21104	-71.1787
1120-402101	BT GPS Demo	9/14/2011	1:48:24 PM	59 seconds	55.1	20.5	2.6	42.21108	-71.17875

To view raw data of all gas readings, GPS coordinates and HDOP values, select “Display Real-time Data for Selected Bar-Hole” or “Display Real-time Data for All Bar-Holes.”

Please note that Google Earth plots all bar-holes displayed in the spreadsheet. To plot a single bar-hole, or set of bar-holes, apply the necessary data filters.

4. Select “Display all Bar-Holes in Google Earth.”

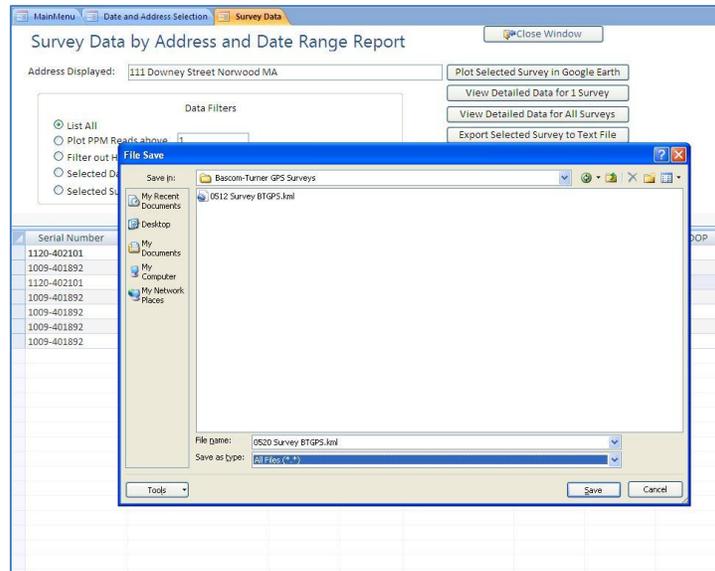


Bar holes with gas readings are marked in red, bar-holes with no gas readings are marked in black. Bar-Holes are usually stacked on top of each other. To expand a set of bar-holes, place the cursor over the set until the white hand transforms to a cross, click to expand. To select detailed readings for a single bar hole, expand any bar holes with the cross and then select an individual bar hole with the cursor.

5. If desired, use Google Earth to save the bar-hole set as an image (“.jpg”) for printing or archiving. (File → Save → Save Image).
6. Exit Google Earth. When closing Google Earth, users are prompted to save the bar-hole set in their “My Places” folder. Please select **Discard**.

Exporting Surveys and Bar-Holes by Address as Text, GPX, XML and KML Files

1. Follow the steps for Previewing Survey and Bar-Holes by Address in Google Earth through step five.
2. To export a single survey as a file, choose the desired survey and appropriate file extension button. When exporting bar-holes, please note that DataLink4Access only exports the bar-hole data displayed in the spreadsheet.
3. Select the appropriate file extension to export the survey, for example KML, name the survey or bar-hole set, choose a directory and select “Save.”

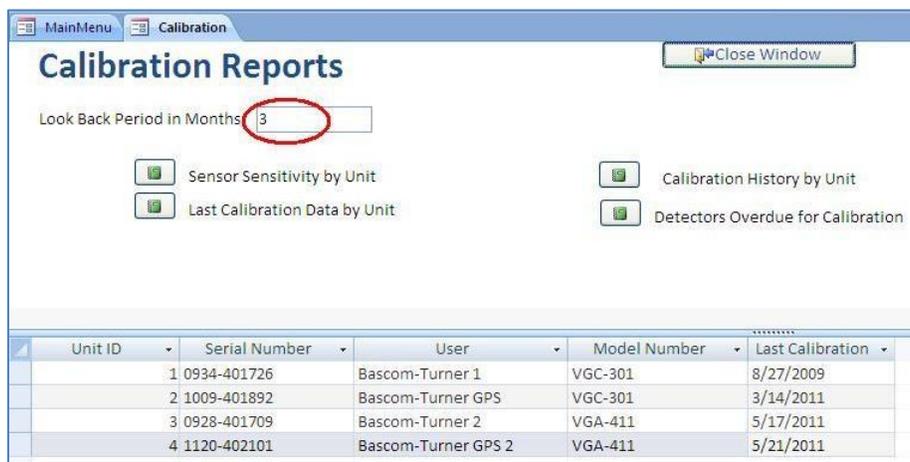


4. If necessary, repeat for different file extensions.

Calibration Reports

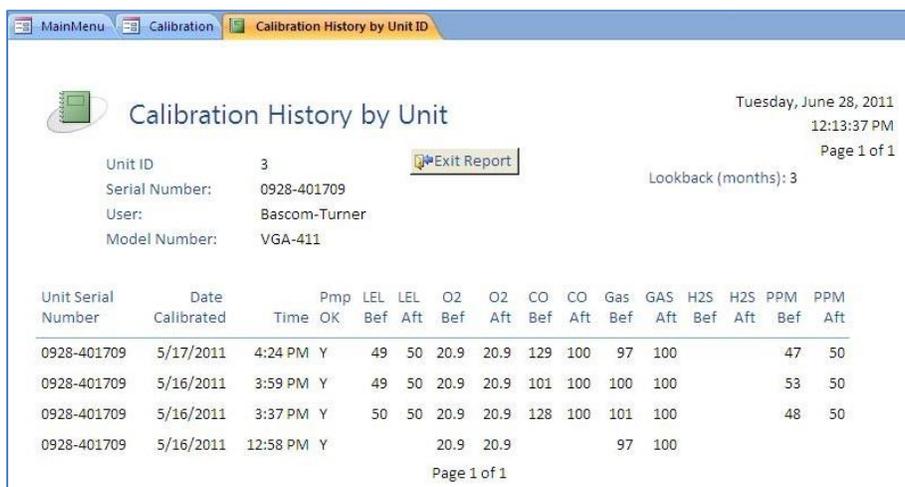
The Calibration Reports feature allows users to view calibration records and sensor sensitivity information for detectors. Please note that calibration data is imported independent of readings data and unit information, and thus DataLink4Access’s calibration log or last calibration date might not match that on the detector. For the most accurate calibration records, Bascom-Turner recommends importing calibration data after each calibration.

To ensure that data loads as quickly as possible, DataLink4Access automatically archives calibration data that is more than three months old. To view earlier calibration records, change the value “Look Back Period in Months” and press enter.



Calibration History by Unit

1. Select the “Calibration” button in the “Reports” column.
2. Select a particular unit and press the “Calibration History by Unit” button.
3. Calibration reports detail, the date and time a unit was calibrated, look back period, pump tests and the unit’s pre and post calibration readings.



4. Print the record or select “Exit Report” to return to the “Calibration Reports” menu.

Last Calibration Data by Unit

1. Select the “Calibration” button in the “Reports” column on the DataLink4Access home screen.
2. Select a unit and press the “Last Calibration Data by Unit” button.
3. Last Calibration Data by Unit reports show in detail: the date and time a unit was calibrated, pump check, the unit’s pre and post calibration readings, and the unit’s sensor sensitivity information.

Unit ID: 3
 Serial Number: 0928-401709
 User: Bascom-Turner
 Model Number: VGA-411

Date Calibrated: 5/17/2011
 Time Calibrated (HH:MM): 04:24 PM

Block Check OK(Y/N): Y

Sensor	Calibration Gas	Before Calibration	After Calibration	Sensitivity	OK (Y/N)
LEL	50% LEL	49	50	2023	Y
CO	100 PPM	129	100	5429	Y
GAS	Air / Cal Gas	100	100	925	Y
GAS	System Gas	97	100	3914	Y
OXYGEN	Air	20.9	20.9	7564	Y
H2S	H2S				
PPM GAS	50% LEL	47	50	1435	Y

4. Print the record or select “Exit Report” to return to the “Calibration Reports” menu.

Sensor Sensitivity by Unit

1. Select the “Calibration” button in the “Reports” column on the DataLink4Access home screen.
2. To view sensor sensitivity information about a unit’s sensor sensitivity, select a unit and press the “Sensor Sensitivity by Unit” button.
3. A Sensor Sensitivity by Unit report details the sensor sensitivity or sensor life of each the sensor in a unit. Frequent calibration and boosting can increase and extend a sensor’s life.

MainMenu Calibration Sensor Sensitivity by Unit ID

Sensor Sensitivity by Unit

Tuesday, June 28, 2011
1:14:31 PM
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Unit ID: 3
Serial Number: 0928-401709
User: Bascom-Turner
Model Number: VGA-411

Exit Report

Lookback (months): 3

Date Calibrated	Time	LEL Sens.	LEL OK	GAS Sens.	GAS OK	CO Sens.	CO OK	OXYGEN Sens.	OXY OK	H2S Sens.	H2S OK	PPM Sens.	PPM OK
5/17/2011	4:24 PM	2023	Y	3914	Y	5429	Y	7564	Y			1435	Y
5/16/2011	3:59 PM	2005	Y	3906	Y	5422	Y	7564	Y			1335	Y
5/16/2011	3:37 PM	2009	Y	3894	Y	5494	Y	7551	Y			1404	Y
5/16/2011	12:58 PM		N	3916	Y		N	7501	Y				N

The following chart explains the relationship between A-Cal sensitivity values and DataLink4Access sensitivity values.

Detector	Detector Operation Mode	DataLink4Access Display	A-Cal Sensor Sensitivity Value	DataLink4Access Sensitivity Value
Gas-Explorer	Track Gas	PPM Sens.	0.5 μ w/ppm	500
	Monitor	LEL Sens.	8 mw/1% gas	800
Gas-Rover	Survey	PPM Sens.	0.5 μ w/ppm	500
	Monitor	LEL Sens.	8 mw/1% gas	800

If the sensitivity of the Survey or Track Gas mode falls below 0.5 μ w/ppm, the natural gas sensor should be change. Similarly if the sensitivity in the Monitor mode falls below 8 mw/1% gas, the natural gas sensor should be changed. For more information about the calibration process please consult the Gas-Rover or Gas-Explorer operation manual.

4. Print the record or select "Exit Report" to return to the "Calibration Reports" menu.

Detectors Overdue for Calibration

1. Select the "Calibration" button in the "Reports" column on the DataLink4Access home screen.
2. For a list of detectors overdue for calibration select the "Detectors Overdue for Calibration" button from the calibration report home screen. The subsequent screen lists the unit ID, serial number, model number, user and days overdue for calibration.
Please note that a unit's calibration information is imported independently of readings and unit imports and thus DataLink4Access calibration log might not match that of a detector. For the most up to date information check the detector's own "calibrate by" date at startup or an NCal4Access report.

Unit Reports

The Unit Reports feature allows users to view details about a unit's software, sensor part-numbers, calibration due period and alarm values. Please note that unit report data is imported independent of readings data and thus DataLink4Access's unit information might not match that of a detector. For the most accurate unit report log, Bascom-Turner recommends importing unit data after each change to an alarm value, calibration due date or software update.

From the Unit Report home screen, users can see all units with: unit ID, serial number, user, model number and activity status.

Unit ID	Serial Number	User	Model Number	Active(Y/N)
1	0934-401726	Bascom-Turner 1	VGC-301	Y
2	1009-401892	Bascom-Turner GPS	VGC-301	Y
3	0928-401709	Bascom-Turner 2	VGA-411	Y
4	1120-402101	Bascom-Turner GPS 2	VGA-411	Y

Active Unit Report

1. Select the “Units” button in the “Reports” column on the DataLink4Access home screen.
2. To view an Active Unit Report for all units select the “Active Unit Report” button on the unit report home screen.
3. From the Active Unit Report screen, users can view all units, unit ID, serial number, model number, sensor part number and software database and version.

Unit ID Number	Serial Number	Model Number	User	MS Sensor PN	CO Sensor PN	OX Sensor PN	HS Sensor PN	Database Version	Software Version
1	0934-401726	VGC-301	Bascom-Turner 1	MS-611	CO-501			DB 01.14	09/11/2009
2	1009-401892	VGC-301	Bascom-Turner GPS	MS-611	CO-501			DB 01.15	03/10/2011
3	0928-401709	VGA-411	Bascom-Turner 2	MS-611	CO-501	OS-501		DB 01.15	03/10/2011
4	1120-402101	VGA-411	Bascom-Turner GPS 2	MS-611	CO-501	OS-501		DB 01.15	05/18/2011

Software database and versions can be updated for free on your PC with the Gas-Rover and Explorer Software Update Program (UPD-001) or with an NCal Docking station. To download the newest program visit www.bascomturner.com/store.

Please note that updating may erase all calibration and readings data. To ensure that nothing will be lost, please import all calibration and readings data prior to updating a detector's software.

4. To return to the unit report home screen select the "Exit Report" button.

Active Unit Settings Report

1. Select the "Units" button in the "Reports" column on the DataLink4Access home screen.
2. To view an Active Unit Settings Report for all units select the "Active Unit Settings Report" button on the unit report home screen.
3. From the Active Unit Settings Report users can view all units, unit ID, serial number, model number, calibration due periods, bar-hole time and alarm values for each sensor.

Unit ID	Serial No.	User	Model No.	Cal Due Period (days)	Bar-Hole Time (seconds)	Air Free CO	% Gas Alarm	% LEL Alarm	PPM Gas Alarm	% O2 Low Alarm	% O2 High Alarm	PPM CO Alarm	PPM H2S Alarm
1	0934-401726	Bascom-Turner 1	VGC-301	30	15				20	10			35
2	1009-401892	Bascom-Turner GPS	VGC-301	31	15				20	10			35
3	0928-401709	Bascom-Turner 2	VGA-411	31	15	N			20	10	19.5	23	35
4	1120-402101	Bascom-Turner GPS 2	VGA-411	31	15	N			20	10	19.5	23	35

Settings cannot be changed from this window. To adjust alarm values or calibration due periods please consult the Gas-Rover or Gas-Explorer operation manual.

4. To return to the unit report home screen select the "Exit Report" button.

Retired Unit Report

1. Select the "Units" button in the "Reports" column on the DataLink4Access home screen.
2. To view a Retired Unit Report for all retired units select the "Retire Unit Report" button from the unit report home screen.
3. For information about retiring or reactivating any units please consult the "Maintenance" section of this manual.

PART III. Maintenance

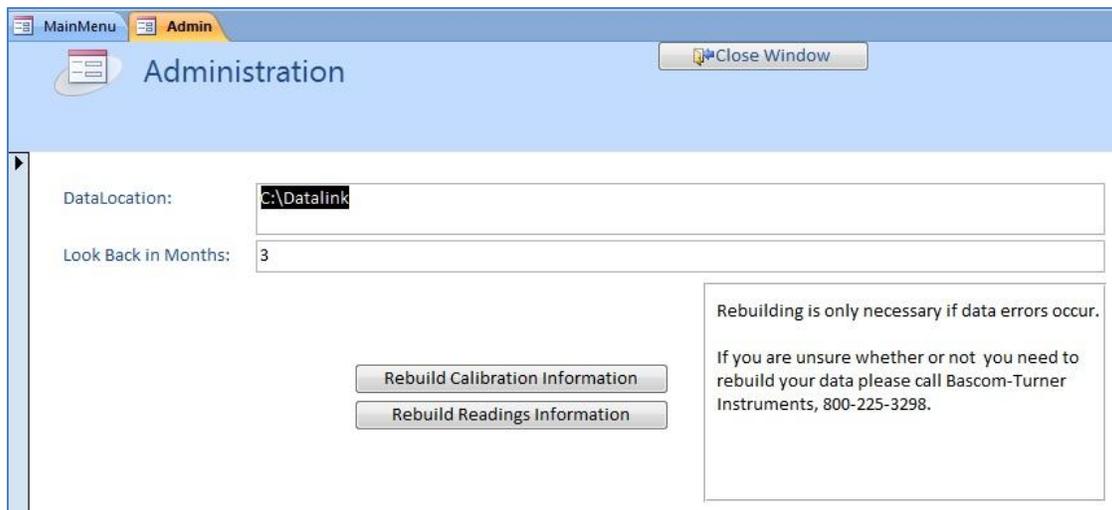
In addition to renaming a unit and updating a unit's date and time, the maintenance features allow users to retire and reactivate a specific detector, and rebuild readings and calibration data.

Retire / Active Detectors

1. To retire or reactivate a unit, select the "Retire / Activate Detectors" button from the DataLink4Access home screen. Please note that whenever a unit is added to DataLink4Access, it is added as an active unit.
2. The unit status screen lists all detectors, to retire/activate a unit, select a unit and press the appropriate buttons. If a unit is retired, the letter "Y" will appear in the "Retired" column. Repeat if necessary.
3. Retired units will now appear in a "Retired Unit Report."

Admin

1. To adjust DataLink4Access's administrative features, select the "Admin" button in the "Maintenance" column on the DataLink4Access home screen.



2. From the Admin Home screen users can:

- Change the data location
- Calibration look back period
- Rebuild calibration data
- Rebuild readings information

Bascom-Turner does not recommend adjusting the data location. If you have any questions about the location of stored data, or rebuilding readings and calibration data please refer to the trouble shooting section of this manual or call 800-225-3298.

Look Back in Months (Calibration Records)

1. The look back in months period refers to the calibration look back period. This value can be adjusted in the admin window or in the calibration reports section. DataLink4Access's

default look back period is three months. The smaller the look back period, the faster calibration data will load.

Rebuilding Readings or Calibration Data

1. If imported calibration or readings data does not appear in the appropriate directory, a readings or calibration information rebuild may be necessary. To rebuild any information, simply select the “Rebuild Calibration Information” or “Rebuild Readings Information” button from the “Administration” home screen. If a readings or calibration data rebuild is unsuccessful, please consult the trouble shooting section of this manual.

PART IV. Troubleshooting

Please refer to the below information to help solve common user problems. If a problem persists, please call 800-225-3298 to speak to service technician.

“Communications Error – Check detector and try again”

This message may occur if a PC is having difficulties communicating with a Gas-Rover or Gas-Explorer. To solve this problem check that:

- The detector is in PC connection mode
- The USB cable is properly inserted into both the detector and a USB port on the PC. If the USB port appears to be loose move the cable to a different port on the PC.
- The detector has successfully paired with Bascom-Turner’s Bluetooth dongle.
- The USB cable is not damaged and is in good working condition.

After addressing any of the above issues, try re-importing the data.

Windows “Not Responding” During Readings and GPS Import

When downloading large data sets Windows—especially Windows 7—may display a “Not Responding” message in the upper left hand corner of the DataLink4Access window and the download progress bar may stop. So long as the Gas-Rover or Gas-Explorer’s LCD lights are still flashing, this is a false “Not Responding” message, and the data import is still in progress. Downloading large amounts of GPS data make take up to five minutes.

If the data appears to have been corrupted or was not completely downloaded during the import procedure, try re-importing the data.

Imported Information but Unit, Calibration or Readings Data is Not There

When information is imported from a detector, only the specific information that the user selected to import will appear in DataLink4Access. For example, if a user imported unit or readings and GPS information, the most recent calibration records will not be imported and will remain on the detector. To ensure that DataLink4Access is up to date, Bascom-Turner recommends importing all records each time a detector is connected to the PC.

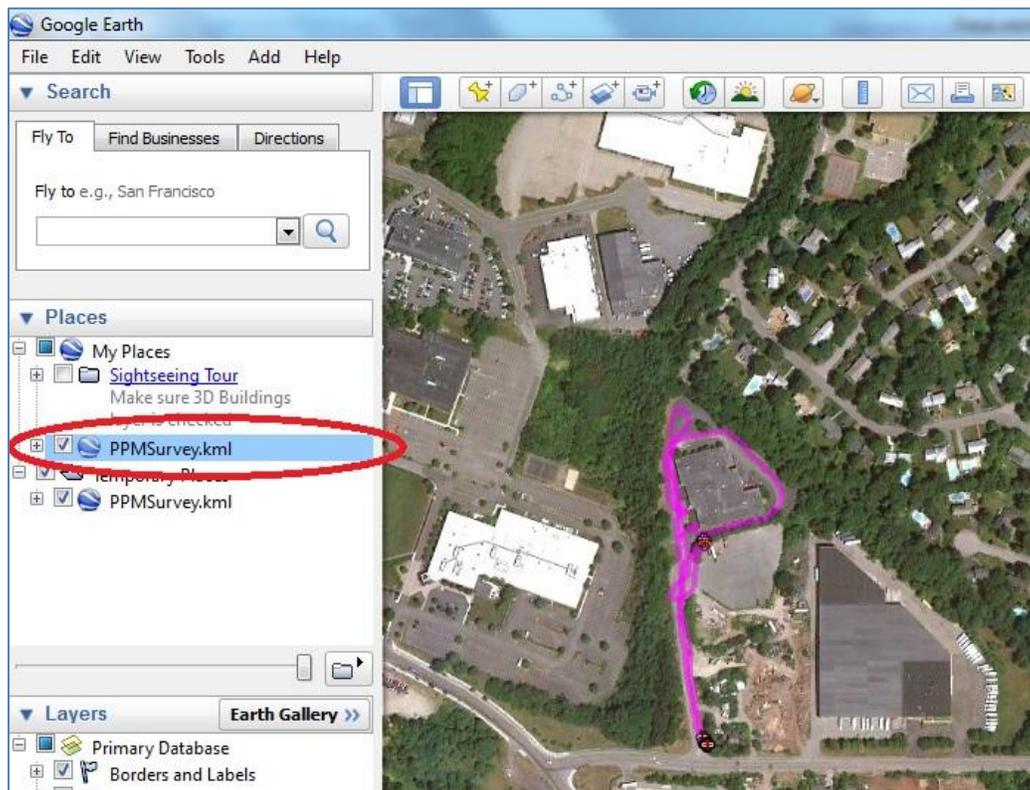
Information was Imported Successfully, but it Does Not Appear in the Readings or Calibration Reports

If data was successfully imported—as shown by a successful import box—but fails to make its way to the appropriate report please try the following:

- Close and reopen DataLink4Access
- Re-import the readings or calibration data
- Rebuild readings or calibration information

Google Earth Displays More Than One Survey or Bar-Hole Set

Each time a user closes Google Earth, he or she is prompted to save or discard their most recent survey or set of bar holes. Google’s default setting is to save all data, so if a user doesn’t select “Discard,” the previous survey or set of bar holes will appear each time Google Earth is opened. If this occurs, it can be easily addressed the next time Google Earth is opened.



On the left hand side of the Google Earth window there should be two files—in this example “PPMSurvey.kml”—one under the “My Places” menu, the other under the “Temporary Places” menu. DataLink4Access places the most recent survey in the Temporary Places folder. The file under “My Places” is a saved file. To remove the saved file, select the *.kml file under “My Places” and press the “Delete” key. Users will then be prompted to confirm their selection, please select yes.