

# 03 Series Data Logger Management Program Operator's Manual

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www.rkiinstruments.com

# Warranty

RKI Instruments, Inc. warrants gas alarm equipment sold by us to be free from defects in materials and workmanship, and performance for a period of one year from date of shipment from RKI Instruments, Inc. Any parts found defective within that period will be repaired or replaced, at our option, free of charge. This warranty does not apply to those items which by their nature are subject to deterioration or consumption in normal service, and which must be cleaned, repaired, or replaced on a routine basis. Examples of such items are:

Absorbent cartridges

Pump diaphragms and valves

Batteries

Filter elements

Fuses

Warranty is voided by abuse including mechanical damage, alteration, rough handling, or repairs procedures not in accordance with the instruction manual. This warranty indicates the full extent of our liability, and we are not responsible for removal or replacement costs, local repair costs, transportation costs, or contingent expenses incurred without our prior approval.

This warranty is expressly in lieu of any and all other warranties and representations, expressed or implied, and all other obligations or liabilities on the part of RKI Instruments, Inc. including but not limited to the warranty of merchantability or fitness for a particular purpose. In no event shall RKI Instruments, Inc. be liable for indirect, incidental, or consequential loss or damage of any kind connected with the use of its products or failure of its products to function or operate properly.

This warranty covers instruments and parts sold to users only by authorized distributors, dealers, and representatives as appointed by RKI Instruments, Inc.

We do not assume indemnification for any accident or damage caused by the operation of this gas monitor and our warranty is limited to replacement of parts or our complete goods.

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CAUTION:	Read and understand this manual before using the 03 Series Data Logger Management Program. Also read and understand the 03 Series Operator's Manual or GP-03 Operator's Manual included with the 03 Series portable gas detection unit.

# Introduction

Using an advanced detection system, the 03 Series Personal Gas Monitor detects the presence of combustible gases, oxygen  $(O_2)$ , carbon monoxide (CO), or hydrogen sulfide  $(H_2S)$ . The 03 Series' compact size and easy-to-use design make it ideally suited for a wide range of applications as described in the 03 Series Operator's Manual and GP-03 Operator's Manual. Please read the 03 Series Operator's Manual or GP-03 Operator's Manual before using the 03 Series Data Logger Management Program.

The 03 Series Data Logger Management Program downloads stored data in the 03 Series to a Windows-based PC. After the data has been downloaded, you can view, save, or print it using your computer and the 03 Series Data Logger Management Program.

The purpose of this manual is to explain how to use and set up the 03 Series Data Logger Management Program. You will learn how to:

- install and launch the software
- install the downloading cable (if needed)
- · access and store data in a common database
- download data from the 03 Series
- view, print, and save data
- change data logging parameters
- change the appearance of the software screens
- · change the color of graphed readings for a particular gas

Before you get started, be sure to review the system requirements in the next section.

CAUTION:	The 03 Series detects oxygen deficiency or elevated levels of oxygen, combustible gases, carbon monoxide, or hydrogen sulfide, all of which can be dangerous or life threatening. When using the 03 Series, you must follow the instructions and warnings in the 03 Series Operator's Manual or GP-03 Operator's Manual to assure proper and safe operation of the unit and to minimize the risk of personal injury.
CAUTION:	The operator of this instrument is advised that if the equipment is used in a manner not specified in this manual,

the protection provided by the equipment may be impaired.

# System Requirements

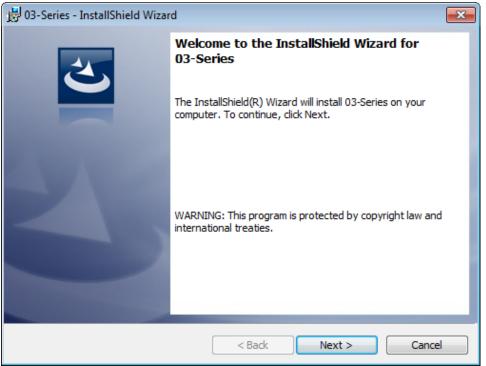
To use the 03 Series Data Logger Management Program , your personal computer must meet the following requirements:

- **Operating Systems:** Windows<sup>®</sup> 7, Windows<sup>®</sup> 8, or Windows<sup>®</sup> 10
- **Processor:** IBM<sup>®</sup> compatible PC running Pentium<sup>®</sup> 2 or higher.
- Memory: 32 MB RAM minimum
- Available Hard Disk Space: 40 MB minimum
- IrDA 1.1 compliant infrared port or USB port and a IrDA 1.1 compliant USB/IrDA adapter cable

# Installing the 03 Series Data Logger Management Program

- 1. Launch Windows<sup>®</sup>.
- 2. Exit from all applications and open windows.
- 3. Go to www.rkiinstruments.com/03series.
- 4. Click on the **Download** tab.
- 5. Click the Data Logger Management Software link.
- 6. A .zip file will begin to download. Select whether you want to open or save the .zip file.
- 7. Extract the contents of the .zip file.
- 8. Double click the **setup.exe** file.

9. After a few seconds, a screen appears indicating that the InstallShield Wizard is preparing to install the Data Logger Management Program, then the 03 Series InstallShield Wizard window appears to guide you through installation.



#### Figure 1: 03 Series Data Logger Management Installation Program

- 10. Follow the on-screen instructions in the InstallShield Wizard Window to install the program.
- 11. If the InstallShield Wizard finds versions of Windows<sup>®</sup> files on your computer newer than those in the downloaded .zip file, it will ask you if you want to keep these newer files. Click **Yes**.
- 12. When the InstallShield Wizard indicates that installation is complete, click the **Finish** button.
- 13. During installation, a shortcut of the 03 Series Data Logger Management Program is made on the Windows<sup>®</sup> desktop.

# IrDA Downloading Cable

The 03 Series communicates with a computer via an on-board infrared communication port that complies with IrDA 1.1 protocol standards.

**NOTE:** If your computer has a built-in infrared port that complies with IrDA 1.1 protocol, you do not need an adapter cable to download data.

If your computer does not have an infrared port, you will need to install a IrDA 1.1 compliant IrDA/USB adapter cable on your computer to use the 03 Series Data Logger Management Program with your 03 Series. An IrDA/USB cable is available from RKI Instruments, Inc. See the Spare Parts List at the end of this manual for the RKI part number.

## Installing an IrDA Adapter Cable

After installing the 03 Series Data Logger Management Program, you must install the driver for the IrDA/USB adapter cable. Make sure the cable driver is compatible with your Windows<sup>®</sup> operating system.

**NOTE:** Do not plug in the IrDA/USB adapter cable into your computer before installing the driver.

Follow the manufacturer's instructions for installing the cable on your computer. If you do not have instructions from the cable manufacturer for installing your cable, see your Windows documentation. In general, you must go to the Control Panel and use the Add Hardware Wizard to install the cable drivers.

# Windows<sup>®</sup> Infrared Operation Note

When using an IrDA adapter cable and the 03 Series Data Logger Management Program on a Windows<sup>®</sup> computer, it is necessary to make a special setting in the Infrared Configuration window for proper communication between the 03 Series and the 03 Series Data Logger Management Program. This must be done before attempting to use the program.

**NOTE:** If you have a Windows 7 computer, the Infrared Configuration window may not appear. If the Infrared Configuration window does not appear, disregard the directions below.

Follow these steps to make this setting:

1. Click **Start** on the Windows<sup>®</sup> Icon Tray.

2. If **Control Panel** is available to select in the **Start** menu, select it. The Control Panel will appear.

If **Control Pane**l is not selectable in the Start menu but **Settings** is, select **Settings**, then select **Control Panel**. The Control Panel will appear.

3. If the Control Panel is viewed by category, open the **Hardware and Sound** folder then click "Send or Receive a File" under the **Infrared** section. The Infrared Configuration window will appear.

If the Control Panel is viewed by icon, click the **Infrared** icon. The Infrared Configuration window will appear.

- 4. Click on the Image Transfer tab.
- Deselect the selection box that says "Allow digital cameras to use infrared to transfer images directly to my computer".
   Deselect

🦉 Infrared 🛛 💌
Infrared Image Transfer Hardware
Allow digital cameras to use infrared to transfer images directly to my computer
Received images
Save received images here:
C:\Users\kimberlycook\Pictures
Browse
Send or receive a file using an infrared connection
OK Cancel Apply

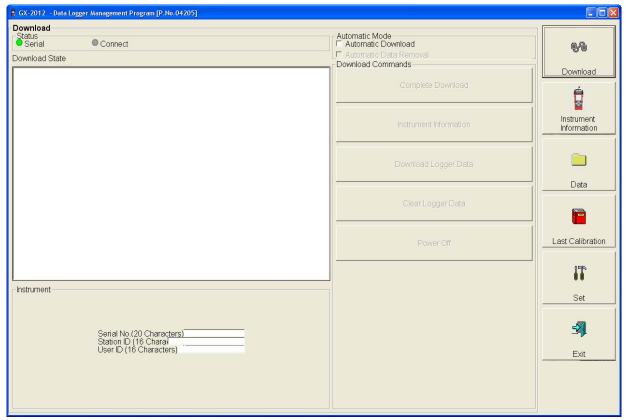
Figure 2: Image Transfer Tab

- 6. Click OK.
- 7. Close the Control Panel window.

# Launching the Program

1. For Windows<sup>®</sup> 7 computers, click the **Start** icon in the Windows<sup>®</sup> Icon Tray, then select **Programs**, then select **03 Series**. Your operating system may also have a shortcut installed in the **Start** menu.

For Windows<sup>®</sup> 8 and Windows<sup>®</sup> 10 computers, click the **Start** icon in the Windows<sup>®</sup> Icon Tray, then click the downward-pointing arrow icon in the lower left corner of the screen, then select **03 Series** from the list of applications installed on your computer.



2. The program will launch and the Download window will appear.

Figure 3: The Download Window

# **Control Buttons**

This section provides an overview of the control buttons. Instructions for using the various parts of the program accessed by the control buttons are given in other parts of this manual.

When the program is launched, it opens in the Download Window. Along the right side of the Download Window are six control buttons that access other windows in the program. The figure below shows the various windows that you can access when you click the control buttons.

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	Serial No. (20 125020109Rt	Characters	Colomponi ararizota di su		2/27/2012 8:35:33 /	AM 50	50	50	90	Download		
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	8-	-Last C	Calibration —									1040
CH4(10			ed Calibration	n	C Calibration	Date C	Calibration	n Record		Print		- 11
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CH4(10			- Set Font And (	Color —		- 03-Series Status					AR	
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				Graph C	Color	Station ID (16 C	(haracters)	PUMP 5			Instrument	
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	1										Data	
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		-										

Figure 4: Windows Accessed by Control Buttons

## **Download Button**

If you are in another program window, clicking the **Download** button opens the Download Window (see Figure 3). The Download window has several download commands that allow you to perform various data retrieval functions with an instrument that is connected to the software. Data can be retrieved from the instrument, data can be cleared from the instrument, and the instrument can be turned off. See "Downloading Data from the 03 Series" on page 21 for a complete description of downloading data from a 03 Series.

## **Instrument Information Button**

GX-2012 - Data Logger Management Program [P.No.04205] Instrument Information [Connected] - GX-2012 Status Calibration History 9/9 Gas Calib Date Before After A.Cal. Cal.Due(Days) CH4(100%LEL) 2/27/2012 8:35:33 AM 53 50 50 90 02(40.0VOL%) 2/27/2012 8:35:33 AM 12.3 12.0 12.0 90 Download rial No. (20 Characters) CO(500ppm) 2/27/2012 8:35:33 AM 50 90 50 50 1Z6020109RN H2S(100.0ppm) 2/27/2012 8:35:33 AM 25.0 25.0 25.0 90 Station ID (16 Characters) Ó CH4(100VOL%) 4/1/2011 0 50 0 User ID (16 Characters) KATIE Last Bump Test trument Informatior Bump Test Date Test Result Gas Concentration Bump Test Due(Days) CH4(100%LEL) 2/27/2012 8:35:33 AM 50 50 30 2/27/2012 8:35:33 AM 12.0 12.0 02(40.0VOL%) 30 CO(500ppm) 2/27/2012 8:35:33 AM 50 50 30 H2S(100.0ppm) 2/27/2012 8:35:33 AM 25.0 25.0 30 CH4(100VOL%) 4/1/2011 Π 50 Data Warning and Alarm point Gas TWA Warning Alarm STEL CH4(100%LEL) 50 10 Last Calibratio 02(40.0VOL%) 19.5 23.5 25 CO(500ppm) 25 50 200 H2S(100.0ppm) 5.0 30.0 15.0 10.0 1T CH4(100VOL% Set 5 Exit

Clicking the **Instrument Information** button opens the Instrument Information Window.

Figure 5: Instrument Information Window

The Instrument Information Window displays various instrument parameters for an instrument that has been downloaded using the **Complete Download** or **Instrument Information** download commands and is currently connected to the program. If an instrument is turned off after being connected to the program, then the program will lose the connection with the instrument and the fields in the Instrument Information Window will become empty.

# **Data Button**

Clicking the Data button opens the Data Window.

🧯 03-Series - Data Logger Management Prog	ram [P.No.04710]				- • •
– Data –					1
03-Series Data	(MM/YY)	Туре	Date/Time	<u>^</u>	ŧ-t
					Download
01/14	01/14			=	
02/14	02/14				Instrument
03/14	03/14				Information
04/14	04/14				
05/14	05/14				
·	09/14				Data
	Property	E-14	Value		
	Туре	Folder			Last Calibration
					ADE
					Set
Serial No. Station ID					Exit
User ID					
		View Data	a l		

Figure 6: Data Window

In the Data Window, you can view, print, export, and delete data that has been downloaded from instruments.

**NOTE:** If the 03 Series Data Logger Management Program database is on the user's computer (default setting), data will only appear for instruments downloaded to that computer. If the database is on a network, data will appear for all instruments downloaded to that database. See "Accessing a Common Database" on page 17 for more instruction.

The following types of data files are saved in the Data window:

Bump Test Files

A bump test file is saved for each instrument that has been downloaded. It records the bump test information for every bump test that was downloaded. The 03 Series can save information for up to 20 bump tests and calibrations combined in its memory. • Calibration History Files

A calibration history file is saved for each instrument that has been downloaded. It records the calibration information for every calibration that was downloaded. The 03 Series can save information for up to 20 bump tests and calibrations in its memory.

• Interval Trend Data Files

Interval trend data is logged at the interval time defined in the 03 Series. Each logged point is an average reading over the previous time interval.

**NOTE:** Although the interval time is stored in the 03 Series, it is not accessible using the 03 Series' operational modes. This parameter can only be accessed and updated using either the Data Logger Management Program or the User Setup Program.

• Alarm Trend Data Files

Alarm trend data is logged around an alarm event. The 03 Series can save 1 alarm trend data files in its memory.

• Alarm Event Files

Alarm event files record gas alarm events that have been downloaded from instruments. The 03 Series can save up to 20 alarm events in its memory.

• Trouble Event Files

Trouble event files record sensor failure and system failure events that have been downloaded from instruments. The 03 Series can save up to 20 trouble events in its memory.

# **Last Calibration Button**

Clicking the Last Calibration button opens the Last Calibration Window.

**NOTE:** The setting of the Bump Test Function instrument parameter affects whether the Bump Test portion of the Last Calibration Window is shown. For further explanation of the Bump Test Function parameter as it pertains to the Last Calibration Window, see "Effects of Bump Test Function Parameter Setting on Appearance of Last Calibration Window" on page 60.

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	2 1Z6020109RN	USER-000	ST-ID000	12/20/2011 8:05:43	12/19/2011 10:29:	£ 12/20/2011 8:05.4	3 12/20/2011 8:11:2	E	2/27/2012 7:59:40	Download
	3 1X6010057 RN	BRUCE	PUMP 3	2/27/2012 7 52 32	2/27/2012 7:52:32	2/27/2012 7 52 32	2/27/2012 7 52 32	1/31/2012 11:4	0.48 2/27/2012 7:57:48	2.
	4	USER-000	ST-ID000	1/31/2012 11:38:43	1/31/2012 11:38:4	3 1/31/2012 11:38:4	3 173172012 11:38:4	3 1/31/2012 11:4	0.48 2/27/2012 7:43:58	6
	5 1Z6020115RN	USER-000	ST-ID000	12/21/2011 5:16:3	12/19/2011 10:49	4 12/21/2011 5.16 3	12/21/2011 5:25:5		2/24/2012 8:09:51	
	6 1Y6010029 RN 7 1Z6010065 RN	KIMBERLY	VALVE 3 BUILDING 1	2/17/2012 7:54:58	2/17/2012 7:54:58	2/17/2012 (:54:58	2/14/2012 11:12:3	E 2/8/2012 3 21 4	40 F 2/17/2012 8:29:43 11:55 2/17/2012 8:09:39	<b>1</b>
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eed E	Bump Test SerialNo 1 126020109RN 2 1X6010057 RN 3 1Y6010029 RN	KATIE BRUCE KIMBERLY	StationID RIG PUMP 3 VALVE 3	2/27/2012 8 35 33 2/27/2012 7 55 20 2/17/2012 7 55 37	02 2/27/2012 8:35:33 2/27/2012 7:55:20 2/17/2012 7:55:37	CO 2/27/2012 8 35 33 2/27/2012 7 55 20 2/17/2012 7 55 37	2/27/2012 8:35:33 2/27/2012 7:55:20 2/14/2012 11:12:5	4/1/2011 1/31/2012 11:4 2/8/2012 3:21 -	Last Download 2/27/2012 8:39:20 0.46 2/27/2012 7:57:46 40 F 2/17/2012 8:29:45	Last Calibration
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eed E	Bump Test SerialNo 1 126020109RN 2 1X6010057 RN 3 1Y6010029 RN	KATIE BRUCE KIMBERLY	StationID RIG PUMP 3 VALVE 3	2/27/2012 8 35 33 2/27/2012 7 55 20 2/17/2012 7 55 37	02 2/27/2012 8:35:33 2/27/2012 7:55:20 2/17/2012 7:55:37	CO 2/27/2012 8 35 33 2/27/2012 7 55 20 2/17/2012 7 55 37	2/27/2012 8:35:33 2/27/2012 7:55:20 2/14/2012 11:12:5	4/1/2011 1/31/2012 11:4 2/8/2012 3:21 -	Last Download 2/27/2012 8:39:20 0.46 2/27/2012 7:57:46 40 F 2/17/2012 8:29:45	Last Calibration
eed E	Bump Test SerialNo 1 126020109RN 2 1X6010057 RN 3 1Y6010029 RN	KATIE BRUCE KIMBERLY	StationID RIG PUMP 3 VALVE 3	2/27/2012 8 35 33 2/27/2012 7 55 20 2/17/2012 7 55 37	02 2/27/2012 8:35:33 2/27/2012 7:55:20 2/17/2012 7:55:37	CO 2/27/2012 8 35 33 2/27/2012 7 55 20 2/17/2012 7 55 37	2/27/2012 8:35:33 2/27/2012 7:55:20 2/14/2012 11:12:5	4/1/2011 1/31/2012 11:4 2/8/2012 3:21 -	Last Download 2/27/2012 8:39:20 0.46 2/27/2012 7:57:46 40 F 2/17/2012 8:29:45	Last Calibration
ed E	Bump Test SerialNo 1 126020109RN 2 1X6010057 RN 3 1Y6010029 RN	KATIE BRUCE KIMBERLY	StationID RIG PUMP 3 VALVE 3	2/27/2012 8 35 33 2/27/2012 7 55 20 2/17/2012 7 55 37	02 2/27/2012 8:35:33 2/27/2012 7:55:20 2/17/2012 7:55:37	CO 2/27/2012 8 35 33 2/27/2012 7 55 20 2/17/2012 7 55 37	2/27/2012 8:35:33 2/27/2012 7:55:20 2/14/2012 11:12:5	4/1/2011 1/31/2012 11:4 2/8/2012 3:21 -	Last Download 2/27/2012 8:39:20 0.46 2/27/2012 7:57:46 40 F 2/17/2012 8:29:45	Last Calibration
eed E	Bump Test SerialNo 1 126020109RN 2 1X6010057 RN 3 1Y6010029 RN	KATIE BRUCE KIMBERLY	StationID RIG PUMP 3 VALVE 3	2/27/2012 8 35 33 2/27/2012 7 55 20 2/17/2012 7 55 37	02 2/27/2012 8:35:33 2/27/2012 7:55:20 2/17/2012 7:55:37	CO 2/27/2012 8 35 33 2/27/2012 7 55 20 2/17/2012 7 55 37	2/27/2012 8:35:33 2/27/2012 7:55:20 2/14/2012 11:12:5	4/1/2011 1/31/2012 11:4 2/8/2012 3:21 -	Last Download 2/27/2012 8:39:20 0.46 2/27/2012 7:57:46 40 F 2/17/2012 8:29:45	Last Calibration Set

#### Figure 7: Last Calibration Window

The Last Calibration Window stores the information for the most recent successful calibration and for the most recent successful bump test for each 03 Series that has been downloaded. Calibration data is displayed in the top part of the screen while bump test data is displayed in the bottom part. You can display the information three ways by using the Need Calibration/Need Bump Test, Calibration Date/Bump Test Date, or Calibration Record/Bump Test Record selection buttons. You can also print the information if you select the Need Calibration/Need Bump Test or Calibration Date/Bump Test Date display options.

# **Set Button**

	Logger Management	Program [P.No.04710]				
Font And Color —		– 03-Series Status —				ŧł
						Download
Aria	al(9)	Serial No. (20 C				
Graph	n Color	Station ID (16 Characters)				Instrument Information
		User ID (16 Cha	racters) BRUCE			
		Interval Trend Ti	me (Sec) 300	•		
						Data
		PC Date/Time	10/9/2	2014 12:16:56 PM		
		03-Series	10/9/	2014 12:15:44 PM		
						Last Calibration
		Update	Date/Time Set			Set
		Warning and	d Alarm point			-57
Gas	Warning	Alarm	STEL	TWA	Auto Cal.	
CO(500ppm)	25	50	200	25	100	Exit

Clicking the Set button opens the Set Window.

Figure 8: Set Window

In the Set Window, you can perform the following functions:

- Alter the appearance of the program windows with the Font and Color buttons
- Change parameters of a connected instrument by editing the fields in the 03 Series Status frame and in the Gas/Warning and Alarm Point frame at the bottom of the window and clicking the **Update** button
- Update the date and time in a connected instrument by using the **Date**/ **Time Set** button

# Accessing a Common Database

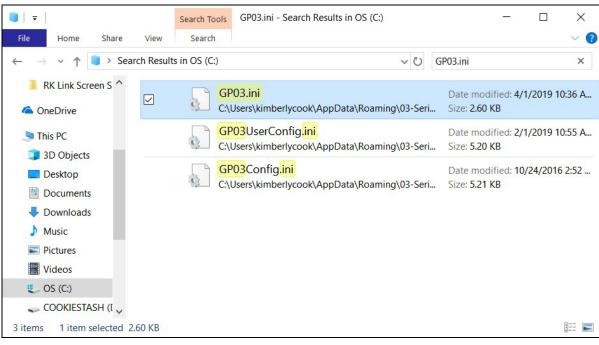
The 03 Series Data Logger Management Program stores downloaded data in a database file. This database file is automatically stored on the computer's hard drive in the same folder as the 03 Series Data Logger Management Program. In this configuration, a computer has access to its own database but no other computer's. Only data downloaded to that computer may be viewed. If the database was set up on a network location, multiple computers could access the same database. All computers accessing that database could view all data that was downloaded from any computer.

The 03 Series Data Logger Management Program has the ability to map its database along any other valid path to another file location. That file location can be on the same computer or it can be on a network location. Putting it on a network location allows multiple users to save data to and access data from the same location. This allows access to instrument data that was downloaded at another computer.

**NOTE:** Only one computer at a time may access the database, so only one software installation mapped to a common database can be running at a time. If two installations attempt to access the same database, an error indication will occur when the second program is launched.

To set up this new database path:

- 1. You must first determine where the database is going to be located and make a note of that file path.
- 2. If the 03 Series Data Logger Management Program hasn't been launched on the computer yet, you must launch and close the program. This creates a GP03.ini file that contains configuration settings.



#### 3. Locate the GP03.ini file by searching your C drive for "GP03.ini".

#### Figure 9: GP03.ini File Found on C Drive

4. Double click the GP03.ini file and open it in Notepad.

 Scroll down to the very last line. This line is the Data Location path. An example of the path created by the program is shown in Figure 10. Replace the current path with the desired path (see Figure 11).

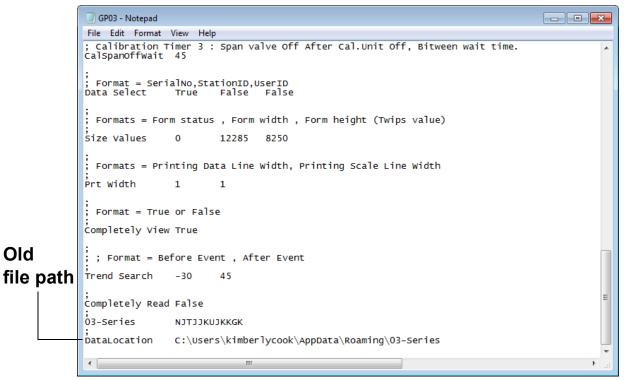
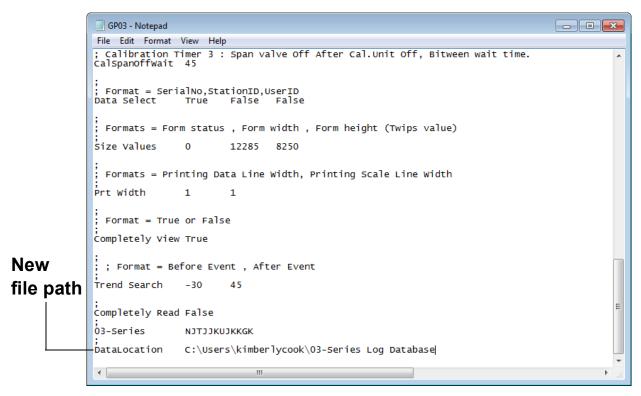


Figure 10: GP03.ini File with Original Path

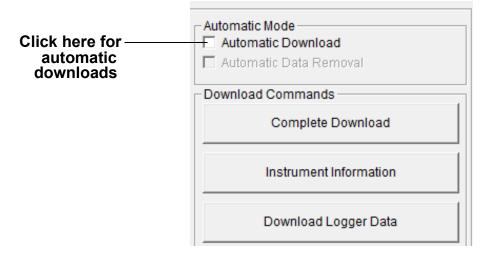


#### Figure 11: GP03.ini File with New Path

- 6. Save the file and reopen the 03 Series Data Logger Management Program.
- 7. When you launch the program again, a database will be created in the specified location.
- 8. Repeat steps 2-5 for all installations that need access to the common database.

# Downloading Data from the 03 Series

You have the option of downloading data manually or automatically. If you want to download data using the automatic download feature, click the Automatic Download selection box in the Download Window before attempting to download data from the 03 Series. Remember that if Automatic Download is selected, the Instrument Information Window will remain blank and the 03 Series will turn off automatically after the data has been downloaded. If you want the data in the 03 Series to be cleared automatically after an automatic Download, select the Automatic Data Removal box. The Automatic Data Removal box is only available for selection if the Automatic Download box is selected.



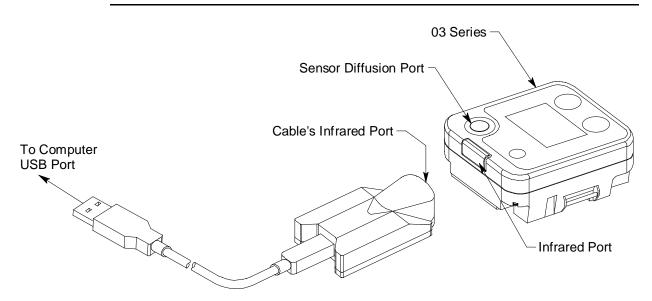
#### Figure 12: Automatic Download Selection Box

To download data from a 03 Series:

- 1. Launch the 03 Series Data Logger Management Program. The Download Window displays. When the program comes up and no instrument is connected, the Download Commands are not selectable.
- 2. Place the 03 Series within an inch or two of the infrared port on your computer aligning the infrared port on the top of the 03 Series with the infrared port on your computer.

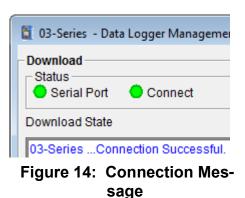
If your computer does not have a built in infrared port, plug the IrDA adapter cable into your computer's USB port, place the 03 Series within an inch or two of the infrared port on the IrDA adapter cable as shown in Figure 13 below, aligning the infrared port on the side of the 03 Series with the infrared port on the cable.

**NOTE:** Be sure that you have installed the IrDA adapter cable's driver as described in "Installing an IrDA Adapter Cable" on page 8 before plugging the IrDA adapter cable into your computer.



#### Figure 13: Aligning the 03 Series with the Cable Infrared Receiver

3. Press and hold the POWER MODE button on the 03 Series until you hear a beep, then release it. The 03 Series will begin its power up sequence (see exceptions below in step 4, step 5, and step 6). If a successful connection between the 03 Series and the computer occurs, the Connect light in the Download window turns green after a few seconds and "Connection Successful." displays in the



Download area of the Download window. The Windows<sup>®</sup> icon tray on Windows<sup>®</sup> 7 computers will indicate that a wireless connection is in effect.

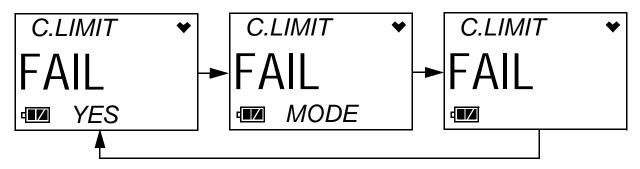


4. If **Bump Fail Behavior** is set to *Can Not Use* and the most recently performed bump test failed, the following screen will appear instead of the screen shown in step 3 above.



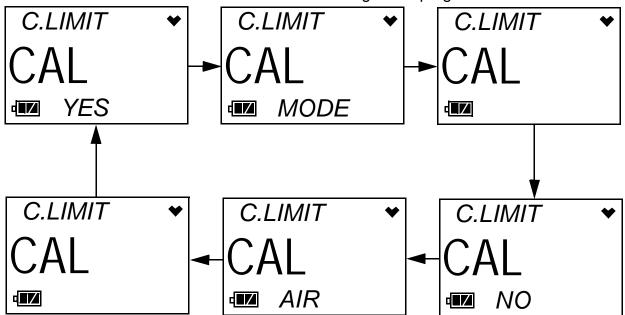
The instrument will not connect to the 03 Series Data Logger Management Program until a successful bump test or calibration is performed by turning the instrument off and entering Calibration Mode. See the GP-03 Operator's Manual or the 03 Series Operator's Manual for bump test and calibration instructions.

- 5. If Bump Fail Behavior is set to None or if it's set to Can Not Use but the most recently performed bump test passed, there are two exceptions to the sequence described in step 3 above when Bump Test Limit Display is set to Off. See the 03 Series User Setup Program manual for a description of the Bump Fail Behavior and Bump Test Limit Display parameters described above and the Cal. Limit Display and Cal. Limit Check parameters described below.
  - When **Cal. Limit Display** is set to *On* and **Cal. Limit Check** is set to *Can't Use*, if the 03 Series is due for calibration, the following screen sequence will occur.

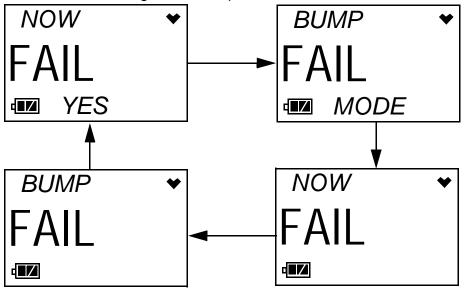


The alarm LED and buzzer will pulse several times before connecting to the program.

• When **Cal. Limit Display** is set to *On* and **Cal. Limit Check** is set to *Confirm to use*, if the 03 Series is due for calibration, the following screen sequence will occur. The alarm LED and buzzer will pulse several times before connecting to the program.



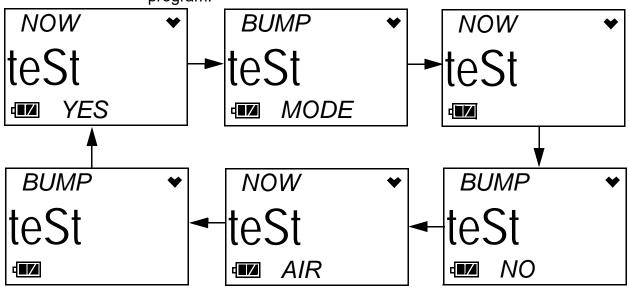
- There are two additional exceptions to the sequence described in step 3 above if Bump Test Limit Display is set to On. See the 03 Series User Setup Program manual for a description of the Bump Test Limit Display and Bump Test Limit Check parameters.
  - When Bump Test Limit Display is set to On and Bump Test Limit Check is set to Can't Use, if the 03 Series is due for bump testing, the following screen sequence will occur.



The alarm LED and buzzer will pulse several times before connecting to the program.

#### 24 • Downloading Data from the 03 Series

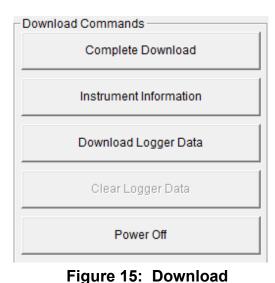
When **Bump Test Limit Display** is set to On and **Bump Test Limit Check** is set to *Confirm to use*, if the 03 Series is due for bump testing, the following screen sequence will occur. The alarm LED and buzzer will pulse several times before connecting to the program.



7. If you selected Automatic Download, the downloading process begins automatically after a successful connection is made.

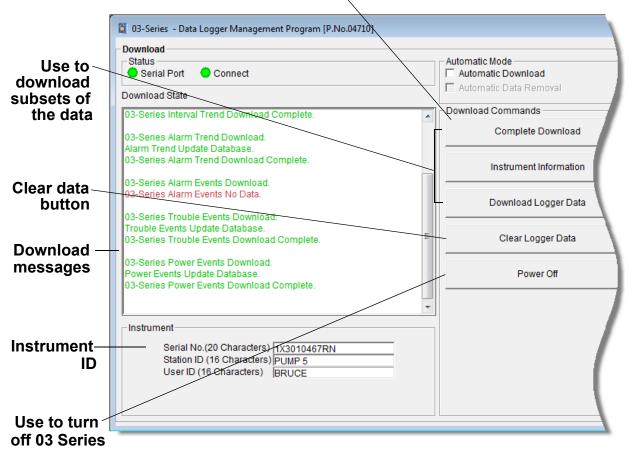
If Automatic Download is not selected, the Complete Download, Instrument Information, and Power Off Download Commands become selectable.

- 8. If you are going to download data manually, you can perform a complete download, download only the instrument information, or download only the data files by using the Download Commands.
  - To download logged data and instrument information from the instrument, click Complete Download.
  - To download instrument information only. click



- Instrument Information.
- Commands To download logged data only, click **Download Logger** Data. Download Logger Data becomes selectable only after a Complete Download or Instrument Information Download Command has been performed.

9. While the data is being downloaded, messages in the download message area of the Download window indicate what actions the program is performing and if there are any communication or downloading problems. These messages also tell you what type of information has been downloaded. A complete download can take up to 3 minutes.



#### Use to download all data

#### Figure 16: Download Messages & Download Commands



10. If the unit has been downloaded manually (Automatic Download not selected), the unit's instrument information may be viewed after downloading by using the **Instrument Information** control button if the unit is still turned on and connected to the computer. The instrument information includes instrument parameters such as serial number and alarm points, and also includes the results of the most recent successful calibration for each channel. To view instrument information for a unit, click **Instrument Information** along the right side of the Download Window. The Instrument Information Window displays. This screen cannot be printed from the downloading software. If the unit is turned off, the Instrument Information window will be blank.

03-Series - Data Logger Management Program [P.No.04710]							
Instrument Information [Conn - 03-Series Status -	ected]						
Serial No. (20 Characters)			Calibratio	n History			
1X3010467RN	Gas	Calib.Date	Before	After A.	Cal.	Cal.Due(Days)	
,	CO(500ppm)	10/10/2014 11:37:55/	45	55	55	87	
Station ID (16 Characters) PUMP 5							
User ID (16 Characters)							
BRUCE			1 1	<b>T</b> 1			
			Last Bu	mp Test			
	Gas	Bump Test Date	Test Result	Concent	ration	Bump Test Due	
	CO(500ppm)	10/10/2014 11:37:55/	-	55	55	2	
		Warning	and Alarm po	int			
Gas	Warning	Alarm		STEL		TWA	
00/2	25	50		200		25	
					•••		

#### Figure 17: Instrument Information Window

- 11. You can view, print, export, or delete downloaded data by entering the Data or Last Calibration Windows. These windows are accessed by clicking **Data** or **Last Calibration** along the right side of the Download Window. See "Viewing, Printing, Exporting, and Deleting Data in the Data Window" on page 29 or "Last Calibration Button" on page 15.
- 12. After downloading data from an instrument, you can delete all the data in the 03 Series by clicking **Clear Logger Data** if desired. This will not delete instrument parameters such as serial number, alarm settings, or autocalibration settings.

WARNING: If you click Clear Logger Data, all data is erased in the 03 Series, but not in your computer's memory. So it's advisable that you download the data from the 03 Series first before clearing the data.

# 03 Series Data Logging Capacity

Interval Trend Time	Data Logging Hours
10 seconds	5 hours
30 seconds	15 hours
60 seconds	30 hours
180 seconds (3 minutes)	90 hours
300 seconds (5 minutes)	150 hours
600 seconds (10 minutes)	300 hours

Table 1 above lists the 03 Series' data logging capacity for each interval trend time setting assuming no alarms or other events. The interval trend time setting can be set using the Set Window (see "Changing 03 Series Instrument Parameters" on page 69).

# **Overwriting Data in the 03 Series**

The 03 Series' Logger Over Write function is factory set to *On* so that when the 03 Series' data logging memory becomes full, it begins to overwrite the oldest interval trend data with new interval trend data. Download data regularly to avoid over-writing data in the 03 Series before it can be downloaded. The Logger Over Write function is accessible using the 03 Series User Setup Program. To set the Logger Over Write function to *Off*, see the 03 Series User Setup Program Operator's Manual. When the Logger Overwrite function is set to *Off*, the 03 Series will stop saving data when its data logging memory is full.

The Logger Over Write function applies only to interval trend data. All other data, such as alarm trend data, event data, or calibration data, will continue to be saved when the memory is full. If the maximum number of each of these types of data has been reached, the oldest data will be overwritten.

# Viewing, Printing, Exporting, and Deleting Data in the Data Window

The 03 Series logs four types of data files: calibration history, interval trend data, alarm trend data, and event data.

You can view, print, and export (save to a file) each of these types of data files. All of these types of data files can also be deleted. The deleting of files is password protected and is described in "Deleting Data in the Data Window" on page 56.

**NOTE:** If the 03 Series Data Logger Management Program database is on the user's computer (default setting) and if the database is not being shared by another computer, data will only appear for instruments downloaded to the user's computer. If the user's database is on a network or if other computers are accessing the user's database, data will appear for all instruments downloaded to that database. See "Accessing a Common Database" on page 17 for more instruction.

## **Data Window**

All of the data, other than the most recent calibration and bump test information that is accessible in the Last Calibration Window, can be accessed in the Data Window. The Data Window is accessed by clicking **Data** along the right side of the program window.

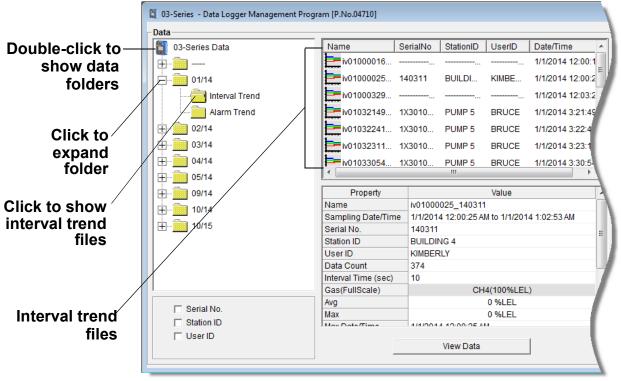


Figure 18: Data Window, Basic Data Organization

The Data Window is divided into four frames. The upper left frame is the Data Frame and displays all the data folders. They are grouped under the 03 Series icon in the upper left part of the frame. If the data folders are not visible, double click the

03 Series icon to make them visible. If no data has been saved, then no folders will appear when the 03 Series icon is double clicked.

The lower left frame contains three selection boxes for organizing data. If none of the boxes are selected, then the data is organized as shown in Figure 18. The data may be organized by one or more of the following parameters: serial number, station ID, or user ID. Click the selection box or boxes in the lower left frame to organize the data as desired.

**NOTE:** In the examples that follow, the data will be shown organized by serial number. If you do not select any of the organization boxes or select the Station ID or User ID boxes instead of or in addition to the Serial No. box, your Data Window will look slightly different.

The upper right frame shows the contents of a data folder that is selected in the Data Frame. The lower right frame shows the summary information for a data file that is selected in the upper right frame. The **View Data** control button is located at the bottom of the lower right frame. The **View Data** button becomes active when a data file is selected in the upper right frame. Clicking **View Data** opens the data file and displays the data.

**NOTE:** If data is being viewed and the data folders are left open before instrument downloading is done, close all folders after downloading and re-open them to be able to view newly downloaded files.

### **Bump Test**

The 03 Series is capable of saving information for up to 20 of the most recent bump tests and calibrations combined. This bump test history is retrieved by the Data Logger Management Program when data is downloaded from the 03 Series using either the **Complete Download** download command or the **Download Logger Data** download command.

Instrument bump test information is also available in the Last Calibration Window. The information regarding the most recent successful calibration and bump test for each downloaded instrument along with whether or not an instrument is due for calibration or bump testing can be accessed using the **Last Calibration** button on the right side of the program window. See "Viewing, Printing, and Deleting Data in the Last Calibration Window" on page 60 for a complete description of the information that can be accessed by the **Last Calibration** button.

All downloaded bump test information for all downloaded instruments is available in the Bump Test folders in the Data Window. This information is saved in a Bump Test Folder that is located in an untitled folder for each instrument. The bump test files are differentiated by instrument. The bump test information available here is more comprehensive than that in the Last Calibration Window. The bump test information for all bump tests downloaded, whether successful or not, is saved instead of just the most recent successful bump test for each instrument. Data

To view, print, or export the bump test information for any instrument in the database:

1. With the software already launched, click the **Data** control button along the right side of the program window. The Data Window will appear.

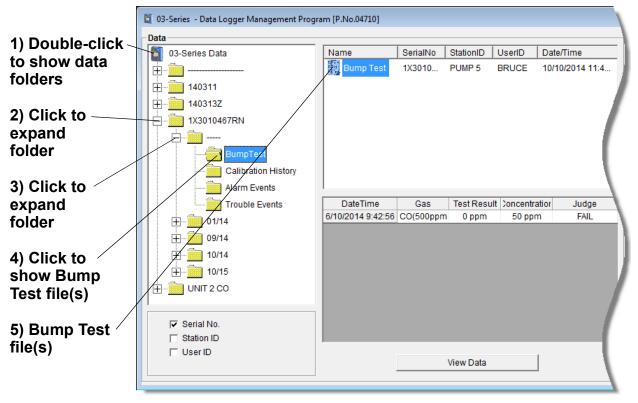


Figure 19: Data Window - Selecting Bump Test Files

- 2. If necessary, double-click the 03 Series icon in the top of the Data Window's upper left frame to see the folders of downloaded data.
- 3. Find your instrument by serial number, then click the expanded view symbol (+) of or double-click the serial number folder to view the contents. The top folder is untitled and contains the Bump Test Folder along with folders for calibration history, alarm events, and trouble events. The rest of the folders contain folders for the interval trend files and alarm trend files and are named and organized by date (month/ year).
- 4. Click the expanded view symbol (+) of or double-click the untitled folder. The Bump Test folder will appear below the untitled folder along with the Calibration History, Alarm Events, and Trouble Events folders.
- Click the Bump Test folder. The Bump Test file or files for that instrument will appear in the top right frame. If multiple station IDs or user IDs are used for an instrument, then more than one Bump Test file will appear.

The serial number, station ID, user ID, and date/time appear on the line for each file. The date/time correspond to the date and time of the instrument download and not a date or time of a bump test.

6. Click the file to select it. The first two bump tests saved will be shown in the bottom right frame along with the total number of bump tests saved if it is more than two.

Each saved bump test shows the date/time of calibration, the gas, the test result, the concentration of gas used, and the result of the bump test.

7. To view the Bump Test file in table format, double click the Bump Test file or click the View Data button. Bump Test files can only be viewed in table format.

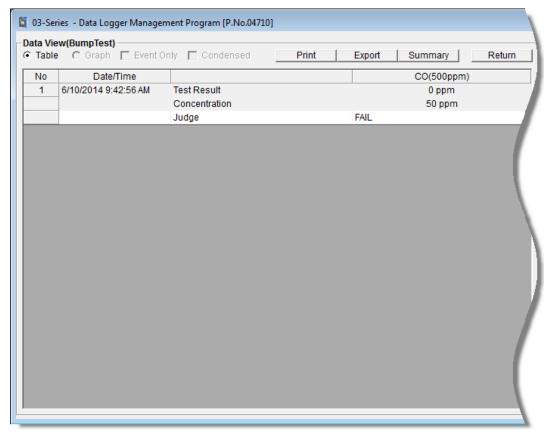


Figure 20: Data View, Bump Test

8. If you click the **Summary** button, the Data Window will split into two frames, one above the other, with the bump test list in the lower frame and the summary information shown in the upper frame. The summary information is the same as the information shown in the upper right frame in Figure 19. To return to the one-frame format, click **Summary** again.

9. If you want to print the data, click the **Print** button. A Printer List dialog box will appear for you to select a printer.



#### Figure 21: Printer List Dialog Box, Calibration History

- 10. Select a printer and click **OK** to print the data.
- 11. To export the data to another application, for example a spreadsheet or database, click the **Export** button. A "Save As" dialog box will appear for you to specify the filename, file type, and file location. The default file type is ".csv" (comma-separated values).

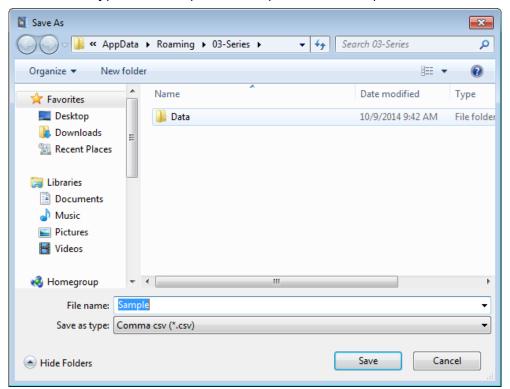


Figure 22: Save as Dialog Box

After specifying the file name, file type, and file location click the **Save** button to save the file to the specified location.

12. To go back and view other data, click the **Return** button in the upper right corner of the Data Window or the **Data** button on the right side of the program window and select the data you want to view.

# **Calibration History**

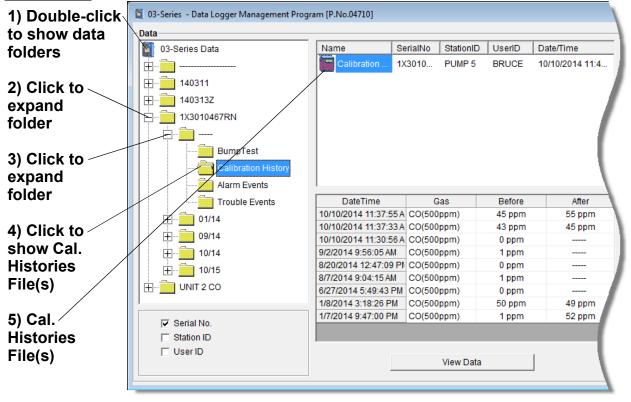
The 03 Series is capable of saving information for up to 20 of the most recent bump tests and calibrations combined. This calibration history is retrieved by the Data Logger Management Program when data is downloaded from the 03 Series using either the **Complete Download** download command or the **Download Logger Data** download command.

Instrument calibration information is also available in the Last Calibration Window. The information regarding the most recent successful calibration and bump test for each downloaded instrument along with whether or not an instrument is due for calibration or bump testing can be accessed using the **Last Calibration** button on the right side of the program window. See "Viewing, Printing, and Deleting Data in the Last Calibration Window" on page 60 for a complete description of the information that can be accessed by the **Last Calibration** button.

All downloaded calibration information for all downloaded instruments is available in the Calibration History folders in the Data Window. This information is saved in a Calibration History Folder that is located in an untitled folder for each instrument. The calibration history files are differentiated by instrument. The calibration information available here is more comprehensive than that in the Last Calibration Window. The calibration information for all calibrations downloaded, whether successful or not, is saved instead of just the most recent successful calibration for each instrument. To view, print, or export the calibration history for any instrument in the database:



1. With the software already launched, click the **Data** control button along the right side of the program window. The Data Window will appear.



#### Figure 23: Data Window - Selecting Calibration History Files

- 2. If necessary, double-click the 03 Series icon in the top of the Data Window's upper left frame to see the folders of downloaded data.
- 3. Find your instrument by serial number, then click the expanded view symbol (+) of or double-click the serial number folder to view the contents. The top folder is untitled and contains the Calibration History Folder along with folders for bump tests, alarm events, and trouble events. The rest of the folders contain folders for the interval trend files and alarm trend files and are named and organized by date (month/ year).
- 4. Click the expanded view symbol (+) of or double-click the untitled folder. The Calibration History folder will appear below the untitled folder along with the Bump Test, Alarm Events, and Trouble Events folders.
- Click the Calibration History folder. The Calibration Histories file or files for that instrument will appear in the top right frame. If multiple station IDs or user IDs are used for an instrument, then more than one Calibration Histories file will appear.

The serial number, station ID, user ID, and date/time appear on the line for each file. The date/time correspond to the date and time of the instrument download and not a date or time of calibration.

6. Click the file to select it. The first two calibrations saved will be shown in the bottom right frame along with the total number of calibrations saved if it is more than two.

Each saved calibration shows the date/time of calibration, the gas, the concentration before calibration, and the concentration after calibration. If a calibration failed, dashes will appear in the After column rather than gas concentrations.

7. To view the Calibration Histories file in table format, double click the Calibration Histories file or click the View Data button. Calibration Histories files can only be viewed in table format.

10	Date/Time			CO(500ppm)	
1	10/10/2014 11:37:55 AM	Before		45 ppm	
		After		55 ppm	
2	10/10/2014 11:37:33 AM	Before		43 ppm	
		After		45 ppm	
3	10/10/2014 11:30:56 AM	Before		0 ppm	1
		After			
4	9/2/2014 9:56:05 AM	Before		1 ppm	
		After			1
5	8/20/2014 12:47:09 PM	Before		0 ppm	
		After			
6	8/7/2014 9:04:15 AM	Before		1 ppm	
		After			
7	6/27/2014 5:49:43 PM	Before		0 ppm	
		After			
8	1/8/2014 3:18:26 PM	Before		50 ppm	
		After		49 ppm	
9	1/7/2014 9:47:00 PM	Before		1 ppm	
		After		52 ppm	
9	1///2014 9:47:00 PM				

Figure 24: Data View, Calibration History

8. If you click the **Summary** button, the Data Window will split into two frames, one above the other, with the calibration history list in the lower frame and the summary information shown in the upper frame. The summary information is the same as the information shown in the upper right frame in Figure 23. To return to the one-frame format, click **Summary** again.

9. If you want to print the data, click the **Print** button. A Printer List dialog box will appear for you to select a printer.



### Figure 25: Printer List Dialog Box, Calibration History

- 10. Select a printer and click **OK** to print the data.
- 11. To export the data to another application, for example a spreadsheet or database, click the **Export** button. A "Save As" dialog box will appear for you to specify the filename, file type, and file location. The default file type is ".csv" (comma-separated values).

🖺 Save As		×
OO V 🕌 « AppE	Data ▶ Roaming ▶ 03-Series ▶ 🔷 😽	Search 03-Series
Organize 👻 New f		:= - 🔞
☆ Favorites	Name	Date modified Type
Marktop	🌗 Data	10/9/2014 9:42 AM File folder
Downloads	E	
🖳 Recent Places		
🥽 Libraries		
Documents		
J Music		
Pictures		
Videos		
🔣 Homegroup	<b>▼</b>	
File name: S	ample	•
Save as type: C	omma csv (*.csv)	•
) Hide Folders	(	Save Cancel

#### Figure 26: Save as Dialog Box

After specifying the file name, file type, and file location click the **Save** button to save the file to the specified location.

12. To go back and view other data, click the **Return** button in the upper right corner of the Data Window or the **Data** button on the right side of the program window and select the data you want to view.

## **Event Data**

The 03 Series not only saves trend files which include logged data at scheduled times, but also saves the 20 most recent alarm events and the 20 most recent trouble events. When an instrument is downloaded, the 03 Series Data Logger Management Program will retrieve these events from that instrument and save them in alarm event files and trouble event files for each instrument that is downloaded.

Alarm event files save the time, instrument channel, and alarm type of every gas alarm event that occurs on a particular instrument. Warning (low alarm), Alarm (high alarm), STEL, TWA, and overscale events are saved.

Trouble event files note the time, whether the event is an instrument system failure or sensor failure and the specific type of failure. Dead battery alarms and sensor failures are among the trouble events that are saved.

Data

To view, print, or export the event data for any instrument in the database:

1. With the program already launched, click the **Data** control button along the right side of the program window. The Data Window will appear.

1) Double-click	📱 03-Series - Data Logger Management Program [P.No.04710]				
, N	Data				
to show data	03-Series Data	Name Se	erialNo StationID Us	erID Date/Time	
folders		Alarm Events 1X	(3010 PUMP 5 BR	RUCE 10/10/2014 11:4	
2) Click to expand folder	140311 140313Z 13010467RN				
3) Click to expand	BumpText Calibration History				
folder	Trouble Events	DateTime	Gas	Event	
	01/14	10/10/2014 11:39:37 A 10/10/2014 11:39:33 A		ALARM	
4) Click to	09/14	10/10/2014 11:38:53 A		ALARM	
	10/14	10/10/2014 11:38:50 A		WARNING	
show alarm	H 10/15	10/10/2014 11:35:45 A		WARNING	
event file		10/10/2014 11:35:27 A	CO(500ppm)	WARNING	
5) Alarm event /	UNIT 2 CO				
	User ID		View Data		

### Figure 27: Data Window - Selecting Event Data Files

2. If necessary, double-click the 03 Series icon in the top of the Data Window's upper left frame to see the folders of downloaded data.

- 3. Find your instrument by serial number, then click the expanded view symbol (+) of or double-click the serial number folder to view the contents. The top folder is untitled and contains the Alarm Events Folder and Trouble Events Folder along with the Calibration History Folder. The rest of the folders contain folders for the interval trend files and alarm trend files and are named and organized by date (month/ year).
- 4. Click the expanded view symbol (+) of or double-click the untitled folder. The Alarm Events Folder and Trouble Events Folder will appear below the untitled folder along with the Calibration History Folder.
- 5. Click the Alarm Events or Trouble Events folder. One or more alarm or trouble event files will appear in the top right frame. An Alarm Events Folder has been opened in the example in Figure 27. If multiple station IDs or user IDs are used for an instrument, then more than one event file will appear.

The serial number, station ID, user ID, and date/time appear on the line for each alarm event or trouble event file. The date/time correspond to the date and time that the instrument was downloaded and not the date and time of an alarm or trouble event.

6. Click the desired event file to select it. An event list will appear in the bottom right frame with the date, time, channel, and event type for the first eight events saved in the selected file. If more than eight events are saved, the first eight events are shown and the total number of events in the file is shown at the bottom of the list.

7. Click the **View Data** button at the bottom of the Data Window or double-click the event file name to open the file and view it in table format. Event files can only be viewed in table format.

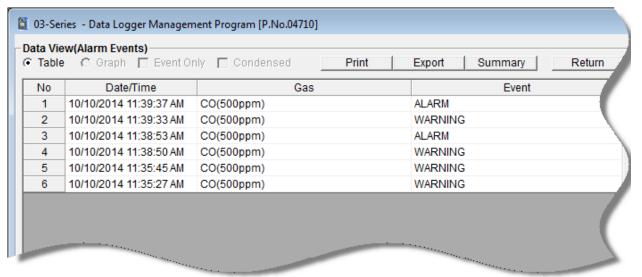


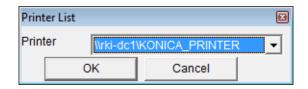
Figure 28: Data View - Alarm Events

Tabl	e C Graph 🗖 Event	Only 🗖 Condensed 🛛 🔤 р Ргіпт	Export Summary Return
No	Date/Time	Gas/Body	Event
1	1/8/2014 3:28:40 PM	CO(500ppm)	Fail(Sens.)
2	1/1/2014	CO(500ppm)	Fail(CLO.)
3	1/1/2014	CO(500ppm)	Fail(ALK.)

Figure 29: Data View - Trouble Events

8. If you click the **Summary** button, the Data Window will split into two frames, one above the other, with the event list in the lower frame and the summary information shown in the upper frame. The summary information is the same as the information shown in the upper right frame in Figure 27. To return to the one-frame format, click **Summary** again.

9. If you want to print the data, click the **Print** button. A Printer List dialog box will appear for you to select a printer.



### Figure 30: Printer List Dialog Box, Event Data

- 10. Select a printer and click **OK** to print the data.
- 11. To export the data to another application, for example a spreadsheet or database, click the **Export** button. A "Save As" dialog box will appear for you to specify the filename and file location. The default file type is ".csv" (comma-separated values).

Save As	ta ▶ Roaming ▶ 03-Series ▶ 🔹 🍫 😽	earch 03-Series
Organize		!≡ ▾ (2)
☆ Favorites	Name	Date modified Type
Desktop	📔 Data	10/9/2014 9:42 AM File folder
Downloads 🛛 🗄 🔀 🔛	E	
🥞 Libraries		
Documents		
J Music		
Pictures		
Videos		
🍓 Homegroup 🔹	•	Þ
File name: San	nple	•
Save as type: Con	nma csv (*.csv)	•
Hide Folders		Save Cancel

Figure 31: Save as Dialog Box

- 12. After specifying the file name, file location, and file type click the **Save** button to save the file to the specified location.
- 13. To go back and view other data, click the **Return** button in the upper right corner of the Data Window or the **Data** button on the right side of the program window and select the data you want to view.

### **Interval Trend Data**

Average gas concentrations over the user defined interval trend time are logged in the interval trend data files. The interval trend time can be changed in the **Set** window. See "Changing 03 Series Instrument Parameters" on page 69 for instructions to change the interval trend time. Events such as gas alarms or sensor failures are saved in the interval trend data file when they occur.

An interval trend data file is created and saved in the 03 Series when the instrument is turned *off*. The serial number, station ID, and user ID that are entered in the instrument when it is turned *on* are saved for the corresponding interval trend file. If the instrument's serial number, station ID, or user ID are changed using the 03 Series Data Logger Management Program or the 03 Series User Setup Program, any interval trend files that result from subsequent operating sessions will have the new serial number, station ID, or user ID saved in them.

The data may be viewed either in table format or graph format if at least 5 scheduled data points have been logged at the programmed interval trend time. This does not include events. If an interval data file has fewer than five scheduled data points, the graph controls are not functional and the data cannot be graphed.



To view and perform desired operations with the interval trend files:

1. With the program already launched, click the **Data** control button along the right side of the program window. The Data Window will appear.

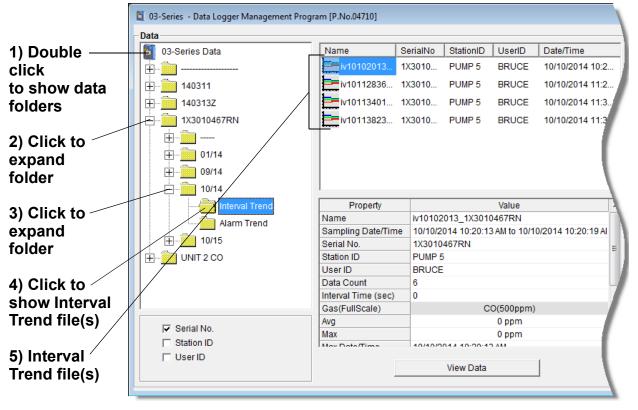


Figure 32: Data Window - Selecting Interval Trend Data Files

- 2. If necessary, double-click the 03 Series icon in the top of the Data Window's upper left frame to see the folders of downloaded data.
- 3. Find your instrument by serial number, then click the expanded view symbol (+) of or double-click the serial number folder to view the contents. The top folder is untitled and contains the Calibration History, Alarm Event, and Trouble Event folders. The rest of the folders contain folders for the interval trend files and alarm trend files and are named and organized by date (month/year).
- 4. Click the expanded view symbol (+) of or double-click the dated folder whose contents you want to see.
- 5. Click on the Interval Trend Folder. In the upper right frame of the Data Window, a list of file names will appear in the Name column. A prefix of "iv" indicates an interval trend data file.

The serial number, station ID, user ID, and date/time appear on the line for each interval trend file. The date/time is the date and time that the data file was created and data began being recorded in that file.

- 6. Click one of the interval trend data file names. A summary will appear in the bottom right frame with instrument and alarm setting information. If you want to view, graph, print, or export the interval trend data, double-click the filename or click the **View Data** button at the bottom of the window.
- 7. Interval trend data can be viewed in either table or graph format by selecting the Table or Graph selection buttons. The example below in Figure 33 is shown in table format.

Select table or graph view Click to see events only	Click to se condensed	data	-Click to save data to a -Click to show session summary -Click to return Data Window	
📋 08-Series - Data Logger Managem	ent Program [P.No.04710]			
Data View(Interval Trend) Table C Graph Event On	ly Condensed	Print   E	xport Summary Return	
No	Date/Time		CO(500ppm)	
1	10/10/2014 11:38:33 AM		0 ppm	
2	10/10/2014 11:38:43 AM		0 ppm	
3	10/10/2014 11:38:50 AM	1	VARNING	/
4	10/10/2014 11:38:53 AM		11 ppm	
5	10/10/2014 11:38:53 AM	<u>/</u>	LARM	
6	10/10/2014 11:39:00 AM	1	IORMAL	
7	10/10/2014 11:39:03 AM		18 ppm	
8	10/10/2014 11:39:13 AM		0 ppm	
9	10/10/2014 11:39:23 AM		0 ppm	- 1
10	10/10/2014 11:39:33 AM		2 ppm	
11	10/10/2014 11:39:33 AM	1	VARNING	
12	10/10/2014 11:39:37 AM		LARM	
13	10/10/2014 11:39:43 AM		48 ppm	
14	10/10/2014 11:39:53 AM		53 ppm	
15	10/10/2014 11:39:58 AM	1	IORMAL	
16	10/10/2014 11:40:03 AM		6 ppm	
17	10/10/2014 11:40:13 AM		0 ppm	
- 18	10/10/2014 11:40:23 AM		0 ppm	
18	10/10/2014 11:40:33 ***		0 ppm	<u></u>

### Figure 33: Interval Trend Data in Table Format

- In table format, the interval trend data is shown as the average gas readings over the user defined interval trend time. So if the data logging session started at 4:13:38 PM and the interval time is set to 1 minute, then the readings logged at 4:14:38 PM are the average reading for each channel over that one minute period.
- Events are displayed on the screen under the channel in which they occur and with the time of the event. Events are displayed whether they occurred at scheduled log times or in between them. Events include gas alarms such as a warning condition, trouble conditions

such as a low sensor failure, and an indication that the unit is returning to "normal" condition after an alarm has been reset using the **POWER MODE** button on the 03 Series.

- If you click the **Summary** button, the Data Window will split into two frames, one above the other, with the data table in the lower frame and the summary information shown in the upper frame. The summary information is the same as the one shown in the lower right frame in Figure 32. To return to the one frame format, click **Summary** again.
- 8. When the data is viewed in table format, if you move the cursor over an alarm event, it will change into a small symbol that looks like an alarm trend data file while it is kept over the alarm event.

	03-Series - Data Logger Managen	nent Program [P.No.04710]	
	Data View(Interval Trend) ● Table  ○ Graph  □ Event Or	nly 🗖 Condensed 🛛 Print	Export Summary Return
	No	Date/Time	CO(500ppm)
	1	10/10/2014 11:38:33 AM	0 ppm
	2	10/10/2014 11:38:43 AM	0 ppm
	3	10/10/2014 11:38:50 AM	WARNING
	4	10/10/2014 11:38:53 AM	11-ppm
	5	10/10/2014 11:38:53 AM	ALARM
	6	10/10/2014 11:39:00 AM	NORMAL
	7	10/10/2014 11:39:03 AM	18 ppm
	8	10/10/2014 11:39:13 AM	0 ppm
	9	10/10/2014 11:39:23 AM	0 ppm
	10	10/10/2014 11:39:33 AM	2 ppm
	11	10/10/2014 11:39:33 AM	WARNING
	12	10/10/2014 11:39:37 AM	ALARM
Alarm 🕂	13	10/10/2014 11:39:43 AM	48 ppm
Trend	14	10/10/2014 11:39:53 AM	53 ppm
	15	10/10/2014 11:39:58 AM	NORMAL
ursor	16	10/10/2014 11:40:03 AM	6 ppm
ymbol 🛛 🚺	17	10/10/2014 11:40:13 AM	0 ppm
		10/10/2014 11:40:23 AM	0 ppm
		. 10/10/2014 11:40:2	0 ppm

Figure 34: Alarm Trend Cursor Symbol

If you click on the event, the corresponding alarm trend data file will be opened in a new window that pops up over the Data Window. No control buttons will be visible along the right side of the new window when an alarm trend data file is displayed in this way. To return to the interval trend data file, click the **Return** button or click the "X" in the upper right corner of the new window to close the window.

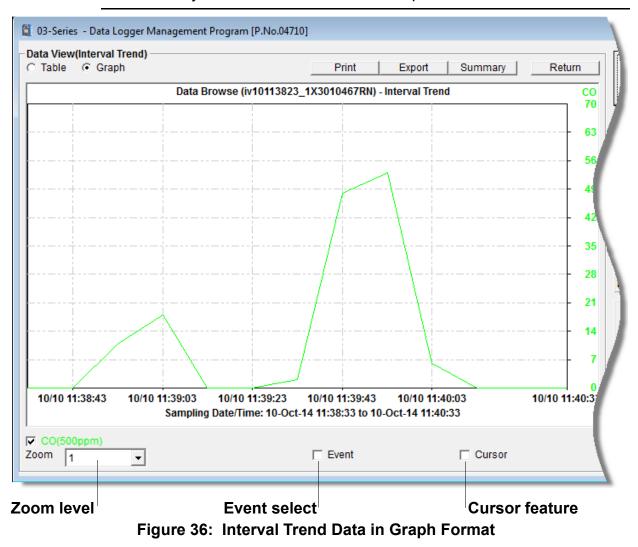
to Minut Alarm Trand			
ata View(Alarm Trend) Table O Graph	Print	Export Summary Return	n
No	Date/Time	CO(500ppm)	<b>^</b>
170	10/10/2014 11:37:55 AM		
171	10/10/2014 11:38:00 AM		
172	10/10/2014 11:38:05 AM		
173	10/10/2014 11:38:10 AM		
174	10/10/2014 11:38:15 AM		
175	10/10/2014 11:38:20 AM		
176	10/10/2014 11:38:25 AM		
177	10/10/2014 11:38:30 AM	0 ppm	
178	10/10/2014 11:38:35 AM	0 ppm	
179	10/10/2014 11:38:40 AM	0 ppm	
180	10/10/2014 11:38:45 AM	0 ppm	
181	10/10/2014 11:38:50 AM	48 ppm	E
182	10/10/2014 11:38:55 AM	51 ppm	
183	10/10/2014 11:39:00 AM	6 ppm	
184	10/10/2014 11:39:05 AM	0 ppm	
185	10/10/2014 11:39:10 AM	0 ppm	
186	10/10/2014 11:39:15 AM	0 ppm	
187	10/10/2014 11:39:20 AM	0 ppm	
188	10/10/2014 11:39:25 AM	0 ppm	
189	10/10/2014 11:39:30 AM	21 ppm	
190	10/10/2014 11:39:35 AM	50 ppm	
191	10/10/2014 11:39:40 AM	52 ppm	
192	10/10/2014 11:39:45 AM	54 ppm	
193	10/10/2014 11:39:50 AM	55 ppm	<b>T</b>

### Click to return to interval trend data

### Figure 35: Data Displayed by Alarm Trend Cursor Symbol

- 9. To view only events in the interval trend data file, click the **Events Only** selection box to select it.
- 10. To view the interval trend data in condensed form, click the **Condensed** selection box to select it. When the data is condensed, the software shows only important and eventful data as follows:
  - The first and last scheduled data points in the session are shown.
  - If there are more than two consecutive data points with the same readings for all channels, only the first and last of these consecutive data points are shown.
  - All events, such as gas alarms or sensor failures, are shown.
  - For any event, the data point before and after the event is always shown.
- 11. To view the data in graph format, click the **Graph** selection button. Five or more scheduled data points are required in an interval trend data file to be able to display it in graph format.

**NOTE:** The data count shown when you have selected an interval trend data file, as in Figure 32 above, can be more than five if you have events, such as the 03 Series going into and out of alarm, but you may not have five scheduled data points.



When viewing interval trend data in graph format, you have several options:

- You can choose the zoom level, or displayed time interval, on the graph. The zoom feature shows greater detail relative to time. Thus, the length of a time division on the graph will depend on both the length of the datalogging session and on the zoom factor. Depending on the length of the data session, data sessions that show changing readings will normally have more choices for zoom levels than sessions that show stable data to allow for viewing of gas reading changes in greater detail.
- When selected, the Event feature adds indications to the graph where the instrument went into a Warning or Alarm condition and where it came out of that condition.
- When selected, the Cursor feature allows you to display the gas reading and log time for each data point saved on the graph. The number of data points on the graph is minimized depending on the length of a data session by several means including omitting consecutive data points that have the same gas readings. As you use the left and right arrow buttons on your keyboard to move the cursor across the graph horizontally, readings at specific log times are displayed. Use the up and down arrows on the keyboard to move the readings up or down on the screen.
- If you click the **Summary** button, the data window will split into two frames, one above the other, with the graph in the lower frame and the summary information shown in the upper frame. The summary information is the same as the information shown in the lower right frame in Figure 32. To return to the one frame format, click **Summary** again.

12. To print the data, whether it is viewed in table or graph format, click the **Print** button. A Printer List dialog box will appear for you to select a printer.



Figure 37: Printer List Dialog Box, Interval Data

- 13. Select a printer and click **OK** to print the data. Data displayed in Graph view will print as a graph and data displayed in Table view will print as a table.
- 14. To export the data to a file so it can be used by another application, for example a spreadsheet or database (for table data) or a word processing or presentation program (for graph data), click the **Export** button. A "Save As" dialog box will appear for you to specify the filename, file location, and file type.

Save As					? 🗙
Save in:	🚞 GX-2012		•	+ 🗈 💣 🎟 -	
My Recent Documents Desktop	i Data				
My Documents					
My Computer					
<b></b>	File name:	Sample.csv		•	Save
My Network Places	Save as type:	Comma csv (*.csv)		•	Cancel

Figure 38: Save as Dialog Box

For Graph view, the export file type is Windows bitmap (.bmp). For Table view, the default file type is ".csv" (comma-separated values). After specifying the file name, file location, and file type click the **Save** button to save the file to the specified location.

15. To go back and view other data, click the **Return** button in the upper right corner of the Data Window or the **Data** button on the right side of the program window and select the data you want to view.

### Alarm Trend Data

In addition to the interval trend data, the 03 Series also saves files that describe the most recent gas alarm events. If a gas alarm event occurs, then an alarm trend file that is centered around the event is saved separately from the interval trend data files. It shows the readings up to 15 minutes before and 15 minutes after the event, with the log interval time every five seconds. The gas readings logged at the alarm event time are highlighted in red and the gas readings logged every 5 seconds around the alarm event are the peak (minimum for oxygen) readings for the previous five seconds. If the 03 Series has not been on for 15 minutes before the alarm event occurs, the data during this time is left blank. If the 03 Series is turned off less than 15 minutes after an alarm event occurs, the data file will only have logged data until the unit was turned off.

The 03 Series saves 1 alarm trend file. When an alarm event triggers an alarm trend file to be saved, subsequent alarm events must occur 15 minutes after the previous triggering event in order to trigger the saving of another alarm trend file. If an alarm trend file is already saved in the 03 Series' memory, the alarm trend file is overwritten when a new alarm trend file is saved. Alarm trend data can always be displayed in either table or graph format.



Data

1. With the software already launched, click the **Data** control button along the right side of the program window. The Data Window will appear.

	🖺 03-Series - Data Logger Management Progra	am [P.No.04710]		
1) Double-click	Data			
-	03-Series Data	Name	SerialNo StationID UserID	Date/Time
to show data		al10113527	1X3010 PUMP 5 BRUCE	10/10/2014 11:3
folders	H 140311	al10113850	1X3010 PUMP 5 BRUCE	10/10/2014 11:3
2) Click to	1X3010467RN			
expand				
folder	01/14			
	09/14			
3) Click to				
•	Interval Trend	Property	Value	
expand		Name	al10113527_1X3010467RN	
folder	Alarm Trend	Alarm Date/Time	10/10/2014 11:35:27 AM	- I \
	10/15	Serial No.	1X3010467RN	
	UNIT 2 CO	Station ID	PUMP 5	=
		User ID	BRUCE	
4) Click to show		Data Count	360	
,		Interval Time (sec)	5	
alarm trend file(s)		Gas(FullScale)	CO(500ppm)	
	Serial No.	Value	40 ppm	
		Warning	25 ppm	
	Station ID	Alorm	50 ppm	
	🔲 User ID		View Data	
5) Alarm trend				· \
file(s)				

Figure 39: Data Window - Selecting Alarm Trend Data Files

- 2. If necessary, double-click the 03 Series icon in the top of the Data window's upper left frame to see the folders of downloaded data.
- 3. Find your instrument by serial number, then click the expanded view symbol (+) of or double-click the serial number folder to view the contents. The top folder is untitled and contains the Calibration History folder along with folders for alarm events and trouble events. The rest of the folders contain folders for the interval trend files and alarm trend files and are named and organized by date (month/year).
- 4. Click the expanded view symbol (+) of or double-click the dated folder whose contents you want to see.
- 5. Click on the Alarm Trend Folder in the upper left frame. In the upper right frame of the Data window, a list of file names will appear in the Name column. A prefix of "al" indicates an alarm trend data file.

The serial number, station ID, user ID, and date/time appear on the line for each alarm trend file. The date/time is the date and time that the data file was created and data began being recorded in that file.

6. Click one of the alarm trend data file names. A summary will appear in the bottom right frame with instrument and alarm setting information. If

you want to view, graph, print, or export the alarm trend data, doubleclick the filename or click the View Data button at the bottom of the window.

7. Alarm trend data can be viewed in either table or graph format by selecting the Table or Graph selection buttons. The example below in Figure 40 is in table format.

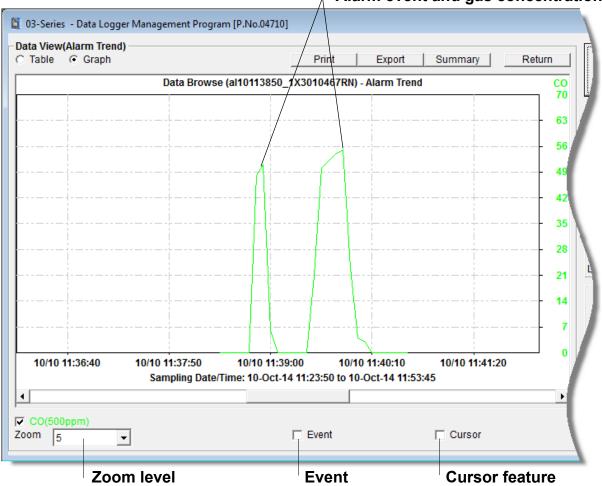
table or ph view		Click to save data to a file	
	Click to print data	Click for a summar of the data	
O3-Series - Data Logger Mana     Data View(Alarm Trend)     Table ○ Graph □ Eve		Export Summary Return	
No	Date/Time	CO(500ppm)	
170	10/10/2014 11:34:32 AM	0 ppm	
171	10/10/2014 11:34:37 AM	0 ppm	
172	10/10/2014 11:34:42 AM	0 ppm	
173	10/10/2014 11:34:47 AM	0 ppm	
174	10/10/2014 11:34:52 AM	0 ppm	
175	10/10/2014 11:34:57 AM	0 ppm	
176	10/10/2014 11:35:02 AM	0 ppm	
177	10/10/2014 11:35:07 AM	0 ppm	
178	10/10/2014 11:35:12 AM	0 ppm	
179	10/10/2014 11:35:17 AM	0 ppm	
180	10/10/2014 11:35:22 AM	0 ppm	
181	10/10/2014 11:35:27 AM	40 ppm 🗐	
182	10/10/2014 11:35:32 AM	14 ppm	
183	10/10/2014 11:35:37 AM	4 ppm	
184	10/10/2014 11:35:42 AM	31 ppm	
185	10/10/2014 11:35:47 AM	45 ppm	
186	10/10/2014 11:35:52 AM	45 ppm	
187	10/10/2014 11:35:57 AM	26 ppm	
188	10/10/2014 11:36:02 AM	6 ppm	
189	10/10/2014 11:36:07 AM	4 ppm	
190	10/10/2014 11:36:12 AM	5 ppm	
191	10/10/2014 11:36:17 AM	3 ppm	
192	10/10/2014 11:36:22 AM		
•			

### Alarm Event

### Figure 40: Alarm Trend Data in Table Format

- In table format, the log times are shown along with the peak (minimum for oxygen) gas readings for the previous five seconds.
- The gas readings at the time of the alarm event around which the logged data are centered are highlighted in red and are the instantaneous readings at that time.
- If you click the **Summary** button, the data window will split into two • frames, one above the other, with the data table in the lower frame and the summary information shown in the upper frame. The summary information is the same as the information shown in the lower right frame in Figure 39.

8. To view the data in graph format, click the **Graph** button. An alarm trend file can always be graphed regardless of the number of logged points.



### Alarm event and gas concentration

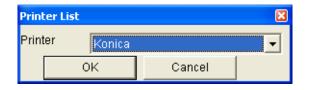
Figure 41: Alarm Trend Data in Graph Format

When viewing alarm trend data in graph format, you have several options:

- You can choose the zoom level, or displayed time interval, on the graph. The zoom feature shows greater detail relative to time. Thus, the length of a time division on the graph will depend on both the length of the datalogging session and on the zoom factor.
- When selected, the Event feature adds indications to the graph where the instrument went into a Warning or Alarm condition and where it came out of that condition.
- When selected, the Cursor feature allows you to display the gas reading and log time for each data point in the alarm trend file. As you use the left and right arrow buttons on your keyboard to move

the cursor across the graph horizontally, readings at specific log times are displayed. Use the up and down arrows on the keyboard to move the readings up or down on the screen.

- If you click the **Summary** button, the data window will split into two frames, one above the other, with the graph in the lower frame and the summary information shown in the upper frame. The summary information is the same as the information shown in the lower right frame in Figure 39. To return to the one frame format, click **Summary** again.
- 9. To print the data, whether it is viewed in table or graph format, click the **Print** button. A Printer List dialog box will appear for you to select a printer.



### Figure 42: Printer List Dialog Box, Interval Data

10. Select a printer and click **OK** to print the data. Data displayed in Graph view will print as a graph and data displayed in Table view will print as a table.

11. To export the data to another application, for example a spreadsheet or database (for table data) or a word processing or presentation program (for graph data), click the **Export** button. A "Save As" dialog box will appear for you to specify the filename, file location, and file type.

Save As			<b>-X</b>
~			
AppDat 🖉	ta 🕨 Roaming 🕨 03-Series 🕨 👻 🍫	Search 03-Series	Q
Organize 🔻 New fol		:≡ ▼	0
☆ Favorites	Name	Date modified	Туре
🧮 Desktop	🌗 Data	10/9/2014 9:42 AM	File folder
🐌 Downloads 🛛	E		
🔛 Recent Places			
<ul> <li>ibraries</li> </ul>			
🍓 Homegroup 🔹			F.
File name: San	nple		-
Save as type: Con	nma csv (*.csv)		<b>_</b> ]
Hide Folders		Save Can	cel

Figure 43: Save as Dialog Box

For Graph view the export file type is Windows bitmap (.bmp). For Table view the default file type is ".csv" (comma-separated values). After specifying the file name, file location, and file type click the **Save** button to save the file to the specified location.

12. To go back and view other data, click the **Return** button in the upper right corner of the Data Window or the **Data** button on the right side of the program window and select the data you want to view.

## **Deleting Data in the Data Window**

The following items can be deleted in the Data Window:

- Data folders
- Calibration History files
- Alarm and Trouble Event files
- Interval Trend and Alarm Trend data files

To delete any of the above items in the Data Window:

- 1. With the program launched, click the Data control button on the right side of the program window.
- 2. Find the folder or file you want to delete.

3. Place the cursor on the folder or file you want to delete and click it with the right mouse button. The Delete box will appear.

🔋 03-Series - Data Logger Management Progr	am [P.No.04710]			- • •
Data         03-Series Data         140311         140313Z         1X3010467RN         1         01/14         09/14	Folder	Туре	Date/Time	Download Instrument Information Data
Delete	Property Type	Folder	Value	Last Calibration
I ✓ Serial No. ☐ Station ID ☐ User ID	_	View Data	a	Exit

Figure 44: Delete Box

4. Click Delete with the left mouse button. The Password Window appears.

🗢 Password	×
Please input password.	
Continue	Change Password

Figure 45: Password Window

- 5. Enter the password and click **Continue**. The password when the program is first installed is "rki". The password is case sensitive. See "Changing the Password" on page 58 for instructions to change the password if desired.
- 6. A window will appear asking you to confirm that you want to delete the selected folder or file.



Figure 46: Delete Data Window

7. If you want to delete the selected item, click **Yes**. The item will be deleted by the program.

If you do not want to delete the selected item, click **No** and the operation will be cancelled.

## **Changing the Password**

**CAUTION:** Changing the password requires use of the Delete box. Take care to avoid accidentally deleting data if you decide to change the password.

It is possible to change that password as follows:

1. Right-click a data folder, data file, or event file. The Delete box will appear.

	Alarm Trend		Instrument Information
	Property Type	Value	
Alarm Trend	Type	Tolder	Last Calibration
			Set
, ✓ Serial No.			Exit
User ID		View Data	

Figure 47: Delete Box

2. Click Delete with the left mouse button. The Password Window appears.



Figure 48: Password Window

3. Click **Change Password**. The Password Window asks you to input the current password.



Figure 49: Inputting Current Password

4. Type the current password, then click **Current password**. The Password Window asks you to input the new password.

🖚 Password	<b>—</b>
Input new password.	
Continue	New Password

Figure 50: Inputting New Password

5. Type the new password and click **New Password**. The Password Window asks you to input the new password again to confirm it.

🗢 Password	<b>—</b>
Input new password agair	۱.
Continue	Confirm New Password

Figure 51: Confirming New Password

- 6. Type the new password again, then click **Confirm New Password**.
- 7. Click **OK** when the program confirms that you have changed the password.

Change pas	ssword	×
1	Change new password.	
	ОК	

Figure 52: Confirming New Password

8. Close the Password Window by clicking the red "X" in the upper right corner of the window.

# Viewing, Printing, and Deleting Data in the Last Calibration Window

You can access data on the most recent successful calibration and bump test for each instrument that has been downloaded in the Last Calibration Window. You can view, print (calibration date/bump test date only), and delete this data in the Last Calibration Window.

**NOTE:** If the 03 Series Data Logger Management Program database is on the user's computer (default setting), data will only appear for instruments downloaded to that computer. If the database is on a network, data will appear for all instruments downloaded to that database. See "Accessing a Common Database" on page 17 for more instruction.

## Effects of Bump Test Function Parameter Setting on Appearance of Last Calibration Window

The setting of the Bump Test Function instrument parameter has an effect on the appearance of the Last Calibration Window. This instrument parameter can be set using the 03 Series User Setup Program. The factory setting is *Off*.

If the Bump Test Function parameter is set to *Off* for every instrument that has been downloaded to the 03 Series Data Logger Management Program using the Complete Download or Instrument Information download buttons, the Last Calibration Window will appear as shown in the screen below. The screen is shown with the Need Calibration option selected. The Bump Test portion of this window is not shown

	d Calibration	C Calibration Date	C Calibrat		Print
No.	SerialNo	UserID	StationID	Date	Last Download
2		1 KIMBERLY	BUILDING 4	5/8/2014 12:27:06 PM 3/12/2014 7:56:55 AM	

Figure 53: Last Calibration Window: Bump Test Function Off

If any instrument has been downloaded to the 03 Series Data Logger Management Program using the Complete Download or Instrument Information download buttons that has the Bump Test Function parameter set to *On*, the Last Calibration Window will appear as below. The screen below is shown with the Need Calibration and Need Bump Test options selected. Only instruments that had the Bump Test Function instrument parameter turned *On* when downloaded will appear in the Bump Test portion of the window. It should be noted that once an instrument that has the Bump Test Function parameter set to *On* has been downloaded using the Complete Download or Instrument Information download buttons, the Bump Test portion of this screen will always appear.

	Series - Data Log	ger Man	agement Program (P.No	p.04710]		
	Calibration —— ed Calibration		C Calibration Date	C Calibrati	ion Record	Print
No.	SerialNo		UserID	StationID	Date	Last Download
	1 1X3010467RN		BRUCE	PUMP 5	1/8/2014 3:18:26 PM	10/9/2014 2:30:38 PM
2	-					9/9/2014 4:23:30 PM
		140311	KIMBERLY	BUILDING 4	3/12/2014 7:56:55 AM	3/13/2014 7:41:23 #
Last F	Bump Test					
	ed Bump Test		O Bump Test Date	O Bump Te	est Record	Print
			UserID	StationID	Date	
No.	SerialNo		USEIID	oranomo	Date	Last Download
	SerialNo 1				4/15/2014 9:22:25 AM	Last Download 4/15/2014 9:24:10 AM
	1	140311	KIMBERLY	BUILDING 4		

### Figure 54: Last Calibration Window: Bump Test Function On

The following screens are shown with the Bump Test portion of the window active. If the Bump Test Function on all of the instruments you have downloaded is set to *Off*, you will not see the Bump Test portion of these screens. For more information on setting the Bump Test Function, see the User Setup Program Operator's Manual.

## Viewing and Printing Last Calibration Data

Open the Last Calibration Window by clicking **Last Calibration** along the right side of the program window. When you open the Last Calibration Window the first time after launching the program, it will open with the Need Calibration/Need Bump Test view options selected. There are three view options in the Last Calibration window: Need Calibration/Need Bump Test, Calibration Date/Bump Test Date, and Calibration Record/Bump Test Record.

### Need Calibration/Need Bump Test Option

Selecting this option shows the last calibration date, last bump test date, and the last download date for the 03 Series instruments that are due for calibration or bump testing. The calibration data appears at the top half of the screen while the bump test data appears in the bottom half of the screen.

**NOTE:** The calibration time limit value, the number of days after a calibration that a new calibration is due, is saved in the 03 Series but it is only accessible with the 03 Series User Setup Program. If the calibration time limit is changed in the 03 Series using the User Setup Program, the new calibration time limit value will not be known by the program until the 03 Series is downloaded.

SerialN           1         126020           2         125020           3         1X6010           4	109RN         KATIE           109RN         USER-000           057 RN         BRUCE            USER-000           115RN         USER-000           029 RN         KIMBERL'	PUMP 3 ST-ID000 ST-ID000	2/27/2012 8:35:33 12/20/2011 8:05:43 2/27/2012 7:52:32 1/31/2012 11:38:45 12/21/2011 5:15:35 2/17/2012 7:54:58	02 2/27/2012 8:35:33 12/19/2011 10:29:5 2/27/2012 7:52:32 1/31/2012 11:38:42 12/19/2011 10:49:4 2/17/2012 7:54:58 2/17/2012 7:56:25	2/27/2012 8:35:33 12/20/2011 8:05:43 2/27/2012 7:52:32 1/31/2012 11:38:45 12/21/2011 6:16:33 2/17/2012 7:54:58	2/27/2012 8:35:33 12/20/2011 8:11:28 2/27/2012 7:52:32 1/31/2012 11:38:45 12/21/2011 5:25:55 2/14/2012 11:12:35	1/31/2012 11:40:44  2/8/2012 3:21:40 F	Last Download 2/27/2012 8:39 2/27/2012 7:59 2/27/2012 7:57 2/27/2012 7:43 2/24/2012 8:09 2/17/2012 8:29
2 1Z6020 3 1X6010 4 5 1Z6020 6 1Y6010	109RN         USER-000           057 RN         BRUCE            USER-000           115RN         USER-000           029 RN         KIMBERL'	ST-ID000 PUMP 3 ST-ID000 ST-ID000 Y VALVE 3	12/20/2011 8:05:45 2/27/2012 7:52:32 1/31/2012 11:38:45 12/21/2011 5:16:35 2/17/2012 7:54:58	12/19/2011 10:29:5 2/27/2012 7:52:32 1/31/2012 11:38:45 12/19/2011 10:49:4 2/17/2012 7:54:58	12/20/2011 8:05:43 2/27/2012 7:52:32 1/31/2012 11:38:45 12/21/2011 5:16:35 2/17/2012 7:54:58	12/20/2011 8:11:28 2/27/2012 7:52:32 1/31/2012 11:38:45 12/21/2011 5:25:52 2/14/2012 11:12:38	 1/31/2012 11:40:44 1/31/2012 11:40:44  2/8/2012 3:21:40 F	2/27/2012 7:59 2/27/2012 7:57 2/27/2012 7:43 2/24/2012 8:09
3 1X6010 4 5 1Z6020 6 1Y6010	057 RN BRUCE USER-000 115RN USER-000 029 RN KIMBERL	PUMP 3 ST-ID000 ST-ID000 Y VALVE 3	2/27/2012 7:52:32 1/31/2012 11:38:43 12/21/2011 5:16:33 2/17/2012 7:54:58	12/19/2011 10:29.6 2/27/2012 7:52:32 1/31/2012 11:38:45 12/19/2011 10:49:4 2/17/2012 7:54:58 2/17/2012 7:56:25	12/20/2011 8:05:43 2/27/2012 7:52:32 1/31/2012 11:38:45 12/21/2011 5:16:35 2/17/2012 7:54:58	2/27/2012 7:52:32 1/31/2012 11:38:43 12/21/2011 5:25:52 2/14/2012 11:12:36	1/31/2012 11:40:44 1/31/2012 11:40:44  2/8/2012 3:21:40 F	2/27/2012 7:57 2/27/2012 7:43 2/24/2012 8:09
4 5 1Z6020 6 1Y6010	USER-000 115RN USER-000 029 RN KIMBERL	ST-ID000 ST-ID000 ( VALVE 3	2/27/2012 7:52:32 1/31/2012 11:38:45 12/21/2011 5:16:33 2/17/2012 7:54:58 2/17/2012 7:56:25	2/27/2012 7:52:32 1/31/2012 11:38:43 12/19/2011 10:49:4 2/17/2012 7:54:58 2/17/2012 7:56:25	2/27/2012 7:52:32 1/31/2012 11:38:49 12/21/2011 5:16:39 2/17/2012 7:54:58 2/17/2012 7:58:55	2/27/2012 7:52:32 1/31/2012 11:38:43 12/21/2011 5:25:52 2/14/2012 11:12:36	1/31/2012 11:40:44  2/8/2012 3:21:40 F	2/27/2012 7:43 2/24/2012 8:09
5 1Z6020 6 1Y6010	115RN USER-000 029 RN KIMBERL	ST-ID000 Y VALVE 3	1/31/2012 11:38:43 12/21/2011 5:16:32 2/17/2012 7:54:58 2/17/2012 7:56:25	1/31/2012 11:38:43 12/19/2011 10:49:4 2/17/2012 7:54:58 2/17/2012 7:56:25	1/31/2012 11:38:43 12/21/2011 5:16:33 2/17/2012 7:54:58	1/31/2012 11:38:43 12/21/2011 5:25:52 2/14/2012 11:12:35	 2/8/2012 3:21:40 F	2/24/2012 8:09
6 1Y601	029 RN KIMBERL	Y VALVE 3	12/21/2011 5:16:33 2/17/2012 7:54:58 2/17/2012 7:56:25	12/19/2011 10:49:4 2/17/2012 7:54:58 2/17/2012 7:56:25	12/21/2011 5:16:33 2/17/2012 7:54:58 2/17/2012 7:56:55	12/21/2011 5:25:52 2/14/2012 11:12:35	2/8/2012 3:21:40 F	
			2/17/2012 7:54:58 2/17/2012 7:56:25	2/17/2012 7:54:58 2/17/2012 7:56:25	2/17/2012 7:54:58	2/14/2012 11:12:36		2/17/2012 8:29
7 126010	065 RN MANNY	BUILDING 1	2/17/2012 7:56:25	2/17/2012 7:56:25	2/17/2012 7-56-25			
					2/1//2012 1.30.29	2/17/2012 7:56:25	2/14/2012 11:41:5	2/17/2012 8:09
: Bump Test								
eed Bump Tes		O Bump Test Date	1	O Bump Te	st Record			Print
SerialN		StationID	CH4	02	CO	H2S	CH4	Last Downloa
1 1Z6020		RIG	2/27/2012 8:35:33	2/27/2012 8:35:33	2/27/2012 8:35:33	2/27/2012 8:35:33	4/1/2011	2/27/2012 8:3
2 1X6010		PUMP 3	2/27/2012 7:55:20	2/27/2012 7:55:20	2/27/2012 7:55:20	2/27/2012 7:55:20		2/27/2012 7:5
3 1 Y6010			2/17/2012 7:55:37	2/17/2012 7:55:37	2/17/2012 7:55:37	2/14/2012 11:12:50		2/17/2012 8:2
4 1Z6010	065 RN MANNY	BUILDING 1	2/17/2012 7:57:02	2/17/2012 7:57:02	2/17/2012 7:57:02	2/17/2012 7:57:02	2/14/2012 11:41:5	2/17/2012 8:09

Figure 55: Last Calibration Window: Need Calibration View Option

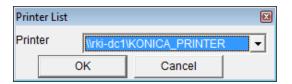
The Need Calibration/Need Bump Test view option shows the following fields for both calibration and bump test data:

- No. lists, in numerical order, the sequence of 03 Series instruments whose data have been downloaded to the computer. The most recently downloaded 03 Series will be No. 1.
- SerialNo shows the serial number of the 03 Series that was downloaded.
- UserID shows the user ID of the of the 03 Series that was downloaded.
- StationID shows the station ID of the unit that was downloaded.
- Date shows when the unit was calibrated or bump tested using the **MM/DD/YY** format and 24-hour military standard time.
- Last Downloaded shows when the last download took place for a unit using the **MM/DD/YY** format and 24-hour military time standard.

The 03 Series instruments that are due for calibration or bump testing (in the case of the Need Calibration/Need Bump Test view option, that will be all of them), will have their last calibration date or last bump test date

highlighted in red. The 03 Series instruments that have not been downloaded for more than 90 days will have their last download date highlighted in purple.

To print a list of the instruments shown in the Need Calibration/Need Bump Test view option along with their user ID and last calibration date or last bump test date, click the **Print** button. A Printer List dialog box will appear.



### Figure 56: Printer List Dialog Box, Need Calibration View Option

Select a printer and click the **OK** button to print the instrument list.

### Calibration Date/Bump Test Date View Option

Selecting this option shows the last calibration date, last bump test date, and the last download date for all the 03 Series instruments that are in the program's database. The fields for the Calibration Date/Bump Test Date view option are the same as for the Need Calibration/Need Bump Test view option.

	ed Calibration	Calibration Date	C Calibrati		Print
No.	SerialNo	UserID	StationID	Date	Last Download
	1X3010467RN	BRUCE	PUMP 5	1/8/2014 3:18:26 PM	10/9/2014 2:30:38 F
2		KIMBERLY	BUILDING 4	5/8/2014 12:27:06 PM 3/12/2014 7:56:55 AM	
.ast B	ump Test				1
	lump Test ed Bump Test	Bump Test Date	C Bump Te	est Record	Print
Nee		Bump Test Date UserID	C Bump Te	est Record Date	Print Last Download
Nee	ed Bump Test SerialNo	UserID 			Last Download
) Nee No.	ed Bump Test SerialNo	UserID 		Date	

Figure 57: Last Calibration Window: Calibration Date View Option

To print a list of the instruments shown in the Calibration Date/Bump Test Date view option along with their user ID and last calibration date or last bump test date, click the **Print** button. A Printer List dialog box will appear.

Print	ter List	
Print		
	ОК	Cancel

### Figure 58: Printer List Dialog Box, Calibration Date View Option

Select a printer and click the **OK** button to print the instrument list.

### Calibration Record/Bump Test Record View Option

Selecting the Calibration Record/Bump Test Record view option shows detailed calibration or bump test information for each 03 Series' most recent successful calibration or bump test.

-Last Cr	eries - Data Log alibration	jger Manageme	ent Program [P	.No.047	710]						1
	d Calibration	0.0	Calibration Dat	te	(	Calibrati	on Record	i			Print
No.	SerialNo	UserID	StationID	Gas		Before	After		A.Cal.		Cal.Due(Day:
1	1X3010467RI	BRUCE	PUMP 5	CO			50	49			Now
2				02			).0	0.0			Now
3	140311	KIMBERLY	BUILDING 4	CH4			50	50		50	Now
•											= 1
Last Bu	ump Test d Bump Test	C E	Bump Test Dat	te		• Bump Te	st Record				Print
Last Bu		C E UserID	Bump Test Dat		( Gas		st Record	Co	ncentratio	_	Bump Test Du
Last Bu O Need No.	d Bump Test SerialNo	UserID	StationID	)	( Gas CO			Co 50		50	Bump Test Dui Now
Last Bu	d Bump Test SerialNo			)	( Gas			Co		50	Bump Test Du

#### Figure 59: Last Calibration Window: Calibration Record View Option

The fields on this screen include SerialNo, UserID, and StationID just as in the Need Calibration/Need Bump Test and Calibration Date/Bump Test Date screens. The Calibration Record fields also include the following:

 Gas — Lists the target gas for which the Before, After, and A.Cal readings are displayed.

- Before shows the settings prior to calibration.
- After shows the settings after calibration.
- A. Cal. lists the auto-calibration setting for the 03 Series. If an 03 Series passes its calibration, the "After" column should match the "A. Cal." column. If the 03 Series fails calibration, the "After" column will retain the previous calibration information.
- **NOTE:** If a unit is calibrated using ONE CAL in the 03 Series' Calibration Mode (see the 03 Series Operator's Manual or the GP-03 Operator's Manual) it is possible for the "After" reading to be different from the "A.Cal" setting if the unit was set to a level different than the "A.Cal" setting.
  - Cal. Due (Days) shows when calibration is due in days (e.g., "Remaining 25 Day" means that calibration is due in 25 days, and "Now" means that calibration is due immediately).

The Bump Test Record fields also include the following:

- Gas Lists the target gas for which the Test Result and Concentration readings are displayed.
- Test Result Shows the gas reading resulting from the bump test.
- Concentration Shows the concentration values of the applied gas.
- Bump Test Due Indicates what day a bump test is due for the instrument. If the instrument is due now, the box will be highlighted in red.

It is not possible to print any information when the Calibration Record/ Bump Test Record view option is selected.

To view and print all past calibrations for an instrument, see "Calibration History" on page 35.

## **Deleting Last Calibration Data**

To delete an instrument and its calibration or bump test data from the Last Calibration Window:

- 1. With the program launched, click **Last Calibration** on the right side of the program window. The Last Calibration Window will appear.
- 2. Select the Need Calibration/Need Bump Test or Calibration Date/Bump Test Date option.
- 3. Click the row for the instrument whose calibration or bump test information you want to delete to select it. It will be highlighted to show that it is selected.
- 4. Click the row with the right mouse button. The Delete box appears.

🖺 03-Series - Data Logger Management Program [P.No.04710]						
	alibration d Calibration	Calibration	Date C	C Calibration Recor		
No.	SerialNo	UserID	StationID	Date		
1	1X3010467RN	D L L	PUMP 5	1/8/2014		
2		Delete		5/8/2014		
3	140	311 KIMBERLY	BUILDING 4	3/12/201		

Figure 60: Delete Box

5. Click Delete with the left mouse button. The Password window appears.

🖚 Password	×
Please input password.	
Continue	Change Password

### Figure 61: Password Window, Deleting Last Calibration Data

6. Enter the password and click the **Continue** button. The password when the software is first installed is "rki". The password is case sensitive. See "Changing the Password" on page 58 for instructions to change the password if desired.

7. The Delete History window will appear asking you to confirm that you want to delete the most recent calibration or bump test information for the selected instrument.



Figure 62: Delete History Window

8. If you want to delete the calibration or bump test information, click **Yes**. The information will be deleted by the program.

If you do not want to delete the calibration or bump test information, click **No** and the operation will be cancelled.

## **Changing 03 Series Instrument Parameters**

To make changes to parameters stored in the 03 Series, use the 03 Series Data Logger Management Program's Set Window. Follow the steps below to make these changes.

- 1. Launch the 03 Series Data Logger Management Program.
- 2. If the Automatic Download selection box is selected, deselect it.
- 3. Connect a 03 Series to the program. See "Downloading Data from the 03 Series" on page 21, instruction 1 through instruction 3, to connect an instrument to the program.
- 4. Once the connection is made, the **Complete Download, Instrument Information,** and **Power Off** download commands will be selectable. Click the **Instrument Information** download command to retrieve the instrument information from the 03 Series. If you wish to download data before making changes, click **Complete Download** instead of **Instrument Information**.



 Click the Set button to display the Set Window. Use the 03 Series Status Frame and the Gas/Sensor Frame to change parameters stored in the 03 Series.

	Font And Color –		- 03-Series Status			
	Ari	al(9)	Serial No. (20 Cha	aracters) 1X3010	467RN	
	Grapt	n Color	Station ID (16 Cha	aracters) PUMP 5	i de la companya de l	
			User ID (16 Chara	User ID (16 Characters) BRUCE		
			Interval Trend Tim	ie (Sec) 300	•	
			PC Date/Time	10/9/	2014 12:16:56 PM	
			03-Series	10/9/	2014 12:15:44 PM	
ck to			Undeta	Date/Time Set		
Click to Update Date/Time			Opdate	Date/Time Set		
anges to	Gas	Warning	Alarm	STEL	TWA	Auto Cal.
	CO(500ppm)	25	50	200	25	100

Figure 63: Set Window

- 6. To change the serial number, station ID, or user ID stored in the 03 Series, click the field you wish to change (e.g., user ID), use the backspace key to remove the current entry, then type the new information.
- 7. To change the datalogging interval trend time, click on the down arrow in the Interval Trend Time Field and select the desired interval time in seconds. The available choices are 10, 20, 30, 60, 180, 300, and 600 seconds.
- 8. To change the channel parameters, click the field you wish to change (e.g. CO AutoCal.) to select it, then type the new information.
- 9. After you have finished entering new parameters, you must upload this information to the 03 Series by clicking the **Update** button, then confirming that you want to update the information by clicking the **Yes** button when the Update window appears.

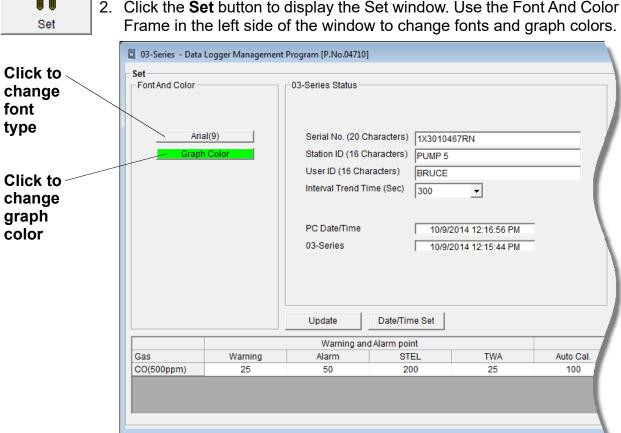
•	
Update	23
Update Ready?	
Yes	No

Figure 64: Update Window

- 10. To update the 03 Series' date and time to match the computer's, click the **Date/Time Set** button and then click the **Yes** button when the Update window appears.
- 11. If you wish to use other functions in the program, click the appropriate control button along the right side of the program window.
- 12. If you wish to exit the software, click the **Download** control button to return to the Download Window. Turn off the 03 Series by clicking the **Power Off** button and confirming that you want to turn off the 03 Series when the Power Off Window appears. Then click the Exit button to exit the software.

## **Changing the Appearance** of the Program Screens

To change how information is displayed in the program (e.g., text font or graph colors), use the program's Set Window. Follow the steps below to make changes.



1. Launch the 03 Series Data Logger Management Program.

Figure 65: Set Window, Changing Fonts and Graph Colors

3. Specify new fonts by clicking the button with the name of a font inscribed on it. This action will display the Font Window. Choose the font type, style, size, and script, then click **OK**.

Font			? 🔀
Font: Arial O Arial Black O Arial Black O Arial Narrow O Arial Unicode MS O Book Antiqua O Book Antiqua O Book Man Old Style O Calibri	ji Italic Bold Bold Italic	Size: 9 10 11 12 14 16 18	OK Cancel
	Sample AaBbYyZ Script: Western		

Figure 66: Font Window

4. Select the colors used to graph the various target gases in the interval trend and alarm trend data files by clicking the appropriate **Graph Color** button on the left side of the Set Window in the Font and Color frame.

Color	Color	
Basic colors:	Basic colors:	
Custom colors: Define Custom Colors >> OK Cancel	Custom colors:	Hue: B0 Red: Sat: 240 Green: Color/Solid Lum: 120 Blue: Add to Custom Colors

Figure 67: Color and Custom Color Windows

- The Color Window shown on the left above appears when the **Graph Color** button is clicked.
- If you want to define a custom color, click the **Define Custom Colors** button and the Custom Color Window shown on the right above replaces the Color Window.
- 5. After making the desired changes, click OK.
- 6. The changes you have made will take effect after you exit and restart the program.

## Troubleshooting

The troubleshooting table below symptoms, probable causes, and recommended actions for problems you may encounter while using the 03 Series Data Logger Management Program.

Symptoms	Probable Causes	Recommended Action
Communication cannot be established	<ol> <li>The 03 Series is not positioned correctly in front of the IrDA port or IrDA/USB adapter cable.</li> <li>Another device that uses IrDA communication is near the 03 Series or IrDA port or IrDA/USB adapter cable.</li> <li>Strong sunlight is hitting the 03 Series or IrDA port or IrDA/USB adapter cable.</li> </ol>	<ol> <li>Adjust the orientation of the 03 Series so that its IrDA port is in line with the computer's IrDA port or IrDA/USB adapter cable.</li> <li>Remove any device using IrDA communication.</li> <li>Move the 03 Series and the computer's IrDA port or the IrDA/USB adapter cable so that sunlight is no longer hitting either of them.</li> </ol>

Table 2: Troubleshooting

Symptoms	Probable Causes	Recommended Action
An error occurs during download or the "Connect" light in the Download window turned grey	<ol> <li>The 03 Series moved during downloading and is no longer positioned correctly in front of the IrDA port or IrDA/USB adapter cable.</li> <li>An object is positioned between the 03 Series and the IrDA port or IrDA/USB adapter cable and is blocking communication.</li> <li>Another device that uses IrDA protocol is near the 03 Series or IrDA port or IrDA/USB adapter cable.</li> <li>Strong sunlight is hitting the 03 Series or IrDA port or IrDA/USB adapter cable.</li> </ol>	<ol> <li>Adjust the orientation of the 03 Series so that its IrDA port is in line with the computer's IrDA port or IrDA/USB adapter cable.</li> <li>Remove any object that is between the 03 Series and the IrDA port or IrDA/USB adapter cable.</li> <li>Remove any device using IrDA communication.</li> <li>Move the 03 Series and the computer's IrDA port or the IrDA/USB adapter cable so that sunlight is no longer hitting either of them.</li> <li>If the difficulties continue, turn off the 03 Series, restart the Datalogging program, and attempt to connect the 03 Series again.</li> </ol>

## Spare Parts List

Part Number	Description
47-5084RK	USB/IrDA adapter module, Legasic, for use with all premier portables (without USB cable)
47-5084RK-01	USB/IrDA adapter assembly, Legasic, for use with all premier portables (with module and USB cable)
47-5085RK	Cable, USB A to USB mini, 6 feet, for USB/IrDA adapter module
47-5093	USB/IrDA adapter with cable and CD (not for use with Eagle 2)
71-0323	03 Series Data Logger Management Program Operator's Manual (this document)
71-8008	03 Series Product CD, Includes the 03 Series Data Logger Management Program, the 03 Series User Setup Program, and Operator's Manuals for each