Installation



Xtreme Mix[™], Xtreme Mix[™] 185, and ProMix Easy[™] Data Download Kit 309

309623 rev. F

Part No. 246322

For use with Xtreme Mix units located in a non-hazardous location.

Includes data download software CD (15B734) and RS-232 cable (15A926).

Part No. 246397 For use with Xtreme Mix units located in a hazardous location.

Includes data download software CD (15B734) and RS-232 cable with barrier (15B816).

Part No. 248404

For use with ProMix Easy and Xtreme Mix 185 units located in a non-hazardous location.

Includes data download software CD (15E074) and RS-232 cable (15A926).

Part No. 248403

For use with ProMix Easy and Xtreme Mix 185 units located in a hazardous location.

Includes data download software CD (15E074) and RS-232 cable with barrier (15B816).

WARNING

To reduce the risk of fire and explosion, which could cause serious injury and property damage, the PC must be in a non-hazardous location.

If connecting RS-232 cable to a unit used in a hazardous location, a safety barrier must be installed between the PC and unit. Use Kit 246397/248403 and see FIG. 2 for installation requirements.

Except as noted, instructions in this manual apply to both ProMix Easy and Xtreme Mix units, which are referred to as "the unit".

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Installing Software

- The program was tested on Microsoft[®] Windows 98 and Windows XP.
- 1. Run Setup.exe from the CD and follow the setup prompts.
- 2. Click **Finish** to complete the installation.

Connecting Unit to PC

1. With the unit turned off, connect the RS-232 cable to the unit's data port (A). Fig. 1.

If connecting RS-232 cable to a unit used in a Hazardous location, use Kit 246397/248403 and see FIG. 2 for installation requirements.

2. Turn on air to start the unit.



FIG. 1

Changing the Serial/COM Port

- If a serial port is not available, use a USB-to-serial port adapter (available at most retail electronics stores). Instructions for setup using an adapter begin on page 4.
- 1. After installing the software, start the XtremeMX or ProMixEZ Setup program from your Start menu.
- 2. Tera Term window opens, showing the current COM port being used.
- 3. Click Setup > Serial Port.
- 4. The Serial Port Setup window opens. Click the desired COM port in the Port list.
- 5. Click OK.
- 6. Press **Enter** on the PC keyboard and verify that the "Welcome to Graco... appears. If it does not appear, refer to Software Troublshooting on page 7.
- 7. Click Setup > Save Setup.
- Save the file as teraterm.ini. Xtreme Mix in directory: C:\Program Files\Graco\Graco XtremeMX log 1.02. or ProMix Easy in directory: C:\Program Files\Graco\Graco ProMixEZ log 1.01.





Using a USB-to-Serial Port Adapter

If your computer does not have a serial port to connect the RS-232 cable to the PC, purchase a USB-to-serial port adapter (available at most retail electronics stores). Graco has tested the Edgeport/1 converter from B&B electronics but other adapters may be used.

After installing the converter and the software you must confirm the COM port. On a computer using Windows XP operating system, perform the following steps.

1. From the "Start" menu, open "Control Panel" and double click "System". See FIG. 3 and FIG. 4.





2. On the "System Properties" menu, click the "Hardware" tab. See FIG. 5.

System Re	estore Auto	matic Updates	Remote
General	Computer Name	Hardware	Advance
		Sustem:	
		Microsoft Windows)	×Р
		Professional	
		Version 2002	
		Service Pack 2	
		SCINCCT GON 2	
		Registered to:	
-		WinXP User	
		Graco Inc	
		55274-640-0171793	-23121
		Computer:	
		Intel(B)	
		Pentium(B) 4 CPU 2	40GHz
		2.39 GHz, 1.00 GB	of BAM
		2.00 0.12, 1.00 0.0 .	
		DK Connel	

3. On the "Hardware" page, click the "Device Manager" button. See FIG. 6.

Suster	o Bestore Automatic Updates Berrote
General	Computer Name Hardware Advanc
Device I	Manager The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
	Device Manager
Drivers-	
a second	
	Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers.
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4. On the list of devices displayed in Device Manager, click on the plus (+) sign in front of "Ports (COM & LPT). See FIG. 7.



5. Ports (COM & LPT) expands and displays the name of the newly installed adapter including the COM port it is using. See FIG. 8.

島 Devic	e Manager	
File Act	ion View Help	
\leftrightarrow \rightarrow	💵 🚑 😫 🔕	
	Computer Disk drives Display adapters DVD/CD-ROM drives Floppy disk controllers Floppy disk controllers Floppy disk drives Human Interface Devices IDE ATA/ATAPI controllers IDE ATA/ATAPI controllers IDE ATA/ATAPI controllers InMultiPortSerial Keyboards Mice and other pointing devices Monitors Network adapters Ports (COM & LPT) Communications Port (COM1) ECP Printer Port (LPT1) EdgePort [A33379229-0] Serial Port - Processors Sound, video and game controllers System devices Universal Serial Bus controllers	1(COM4)

 Note this COM port to use in setting the Tera Term (see "Changing the Serial/COM Port" on page 3). See FIG. 9.

Tera Term: Serial port	setup	
Port:	COM1	ОК
<u>B</u> aud rate:	COM2	
Data:		Cancel
P <u>a</u> rity:	none 🔻	
<u>S</u> top:	1 bit 💌	<u>H</u> elp
Elow control:	none 🔻	
- Transmit delay	,	
0 msec	/ <u>c</u> har 0 m	sec/ <u>l</u> ine
ig. 9		

Log Program

The XtremeMX Log or ProMixEZ Log program starts communication between the PC and the unit and retrieves log and alarm files.



cause serious injury and property damage, the PC must be in a non-hazardous location.

When the unit is first started up or has been shutdown for longer than 2 months, you must turn it on for 8 hours to recharge battery. Reset the date and time with the Setup program.

The unit should be run continuously for 8 hours or more at least once per month to maintain proper charge. If the battery is not recharged on a regular schedule, the date information may be reset. If the date is reset the date information will be incorrect in the data log.

- 1. Start XtremeMX Log or ProMixEZ Log program from your Start menu.
- 2. Tera Term: COM window opens.
- You are prompted to enter the log file name. Type in an identifiable name, such as Log 12-01-2002. Press Enter.
- 4. Xmodem Receive status window opens, then closes when log file is complete.
- If the "Packet #" value does not update, abort the log program and run the setup program (page 7).
- 5. You are prompted to enter the alarm file name. Type in an identifiable name, such as *Alarm 12-01-2002*. Press Enter.
- 6. Xmodem Receive status window opens, then closes when alarm file is complete. Tera Term: COM window also closes.
- 7. Log and alarm are saved as text files and stored in the C:\xtrememx or C:\promixez directory. You can open the files as text documents or create a spread sheet by opening with Microsoft Excel.

Log Example

Selection b: View Log Files	Welcome to the Graco Control Application Menu Build date: Mar 08 2004 11:18:39 (debug build)
Choices:	a. Software Update and Version Information
	b. View Log Files
	c. Set Date and Time
Selection: View Log Files	a. Enter System Information
Selection. View Log Files	Enter Selection [a-u].
Selection b choices:	a. Transfer run log file
	b. View run log file
	c. Transfer alarm log file
	d. View alarm log file
	e. Reset totals
	f. Return to Main Menu
	Enter Selection [a-f]: a
Selection a: Transfer run log file	Tera Term Instructions:
	1. Go to the File -> Transfer -> XMODEM -> Receive Menu.
	2. Select the 1K and Binary Option.
	3. Specify the file name and directory to store the job log file.
	4. Click the Open button.
	Hyperterminal Instructions:
	1. Go to the Transfer -> Receive menu.
	2. Select the Y-Modem protocol.
	3. Specify the directory to store the job log file.
	4. Click the Receive button. The setup values will be stored in a file named ProMixEZRunL og tyt in the directory specified in #3 above
	(Type Ctrl Y several times to cancel the transfer)
	(Type Cut-X several times to cancel the transfer)

Software Troubleshooting

If the Graco program does not start, check the following:

- Is the power on?
- Are cable 118342 and any adapters used fully seated at both the PC and the connected ports?
- Are any other programs using the same PC communication port?
- Communication conflicts typically occur with fax and handheld computer software. Close or deactivate possible conflicting software.
- Try switching to another PC communication port.
- If using Hyper Terminal, try closing, then restarting the program. Sometimes new communications parameters do not take affect until the software is restarted.
- Try pressing the PC Enter key multiple times to display the main menu.
- To isolate the problem, try communicating with a different PC, RS-232 cable, or ProMix Easy, Xtreme-Mix or XtremeMix 185 system, if available.

Setup Program

Use Setup program to:

- install software updates
- view log files
- set date and time
- enter calibration information
- set pump size
- 1. Start Setup program from your Start menu and follow the prompts.
- 2. Tera Term: COM window opens. Press Enter.
- 3. Follow the prompts in the window. Refer to screen examples below.

Setup examples for Xtreme Mix

Choices: Selection: Software Update and Version Information Selection: b Software versions:	 Welcome to the Graco Control Application Menu Build date: Sep 11 2002 08:36:59 (debug build) a. Software Update and Version Information b. View Log Files c. Set Date and Time d. Enter Calibration Information e. Enter Pump Size Enter Selection [a-e]: a a. Install Control Application Software b. Display Software Versions c. Return to Main Menu Enter Selection [a-c]: b Boot Code version: 1.01, checksum=c365ac, built:Aug 05 2002 10:31:50 Control Application version: 1.01, checksum=21e90a9, built:Sep 11 2002 08:37:07
	Enter Selection [a-e]: c
Selection: Set Date and Time	Current Date 03/01/02. Current Time 12:04. Note: To fully charge clock battery, power up unit for 4 hours. a. Set date b. Set time
Selection: a	Enter Selection [a-c]: a
Enter month:	Enter a new month (1-12). Current month 03 09
Enter day:	Enter a new day (1-31). Current day 01 12
Enter year:	Enter a new year (2-50). Current year 02 02
Note: Calibration number is on the sensor housing label.	Welcome to the Graco Control Application Menu Build date: Sep 11 2002 08:36:59 (debug build) a. Software Update and Version Information b. View Log Files c. Set Date and Time d. Enter Calibration Information e. Enter Pump Size
Selection: Enter Calibration	Enter Selection [a-e]: d
Enter A calibration factor:	Enter new A calibration factor. Current A calibration factor: 91000 91007
Enter B calibration factor:	Enter new B calibration factor. Current B calibration factor: 91000 91050
Updated calibration:	Calibration factor $A = 91007$. Calibration factor $B = 91050$.

Note: Choose the pump size value from the chart below.	Welcome to the Graco Control Application Menu Build date: Sep 11 2002 08:36:59 (debug build) a. Software Update and Version Information b. View Log Files c. Set Date and Time d. Enter Calibration Information o. Enter Dump Size
Selection: Enter Pump Size	Enter Selection [a-e]: e
Enter pump size:	Enter new pump size. Current pump size: 250 220
Updated pump size:	Pump size = 220.

*Pump Size Values

Pump	Size	Cycle Length	
	(cc/cycle)	(gal/cycle)	(in/cycle)
King 45:1	250	0.0660	9.500
King 56:1	220	0.0581	9.500
King 68:1	180	0.0475	9.500
King 80:1	145	0.0383	9.500
HydraMix	92	0.0243	7.600
UltraMix	54	0.0143	6.000

Setup examples for ProMix Easy and Xtreme Mix 185

Selection b: View Log Files <i>Choices:</i> <i>Selection: View Log Files</i>	 Welcome to the Graco Control Application Menu Build date: Mar 08 2004 11:18:39 (debug build) a. Software Update and Version Information b. View Log Files c. Set Date and Time d. Enter System Information Enter Selection [a-d]: d 						
Selection d choices:	 a. Transfer r b. View run c. Transfer a d. View alar e. Reset tota f. Return to 	un log file log file larm log file m log file ls Main Menu					
Selection b: View run log file	Enter Select	ion [a-1]: D					
Sample Run Log	Date 03-10-04 03-10-04	Time 09:07 09:07	Descriptic Run/Spra Stop Butte	on y Start on Pushed	Ratio 1.0:1 1.0:1	A Total 0 0	B Total 0 0
	Run log suce	cessfully dun	nped				
Selection d: View alarm log file	Enter Select	ion [a-f]: d					
Sample Alarm Log	Date 03-10-04 03-10-04	Time 09:00 09:11	Code 8 9	Descriptio Sensor Co Pump A C	n ode Defa)Ver Trav	ult Loaded el	
	Alarm log si	uccessfully d	umped				
Choices: Selection d: Enter System	Welcome to Build date: I a. Software b. View Log c. Set Date a d. Enter Sys Enter Select	the Graco Co Mar 08 2004 Update and V Files and Time tem Informat ion [a-d]: d	ontrol Appli 11:18:39 (d /ersion Info ion	cation Menu ebug build) rmation	ı		
Information Selection d choices:	 a. Set Pump or Flow Meter Option b. Enter Pump Sensor Calibration c. Enter Pump Size d. Enter Pump Length e. Enter Pump Offset f. Enter Flow Meter Calibration g. Return to Main Menu 						
Selection b: Enter Pump Sensor Calibration	Enter Select Enter new p ?91234	ion [a-g]: b ump A calibr	ation factor	(x10000 μS	S/in). Cu	rrent = 91111	
	Enter new p ?91235	ump B calibr	ation factor	(x10000 μS	/in). Cu	rrent = 91000	
	Calibration	factor $A = 91$	234. Calibra	ation factor	B = 912	35	

Selection c: Enter Pump Size Note: Pump values shown here for selections c, d, and e are for Ultra Mix pump, see table on page 9 for other pumps Selection d: Enter Pump Length	Enter Selection [a-g]: c Enter new pump size (cc/cycle). Current = 54 ? 54 Pump size (cc/cycle) = 54. Enter Selection [a-g]: d Enter new pump length (x1000 inch/cycle). Current = 6000 ? 6000 Pump length (x1000 inch/cycle) = 6000.
Selection e: Enter Pump Offset Note: FIG. 10 on the next page shows a sample offset and changeover.	Enter Selection [a-g]: e Enter new pumpOffset (x1000 inch). Current = 150 ? 150 (for UltraMix-based system) ? 300 (for HydraMix-based system)
	Enter new TopChangeOver Zone (x1000 inch). Current = 150 ? 150 (for UltraMix-based system) ? 500 (for HydraMix-based system)
	Enter new BottomChangeOver Zone (x1000 inch). Current = 150 ? 150 (for UltraMix-based system) ? 700 (for HydraMix-based system)
	Pump Offset = 150. TopChangeOver Zone = 150. BottomChangeOver Zone = 150. (for UltraMix-based system) Pump Offset = 300. TopChangeOver Zone = 500. BottomChangeOver Zone = 700. (for HydraMix-based system)
Solaction f: Entor Flow Mator	Enter Selection [a-g]: f
Calibration	Enter new flow meter A k-factor (x1000 cc/pulse). Current = 119 ? 119
	Enter new flow meter B k-factor (x1000 cc/pulse). Current = 119 ? 119
	Enter new ratio balance (1-99%). Current = 5
	k-factor A = 119. k-factor B = 119. Ratio tolerance = 5.



HydraMix Pump Cylinder

FIG. 10

Graco Phone Numbers

TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor.

Phone: 612-623-6921 or Toll Free: 1-800-328-0211, Fax: 612-378-3505

All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice. This manual contains English. MM 309623

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