

Data Reporter

309867 rev.E



Important Safety Instructions

Read all warnings and instructions in this manual. Save these instructions.

Part No. 246085

Records actual temperature, temperature setpoint, actual pressure, pressure setpoint, cycles, and diagnostic code data from Reactor™ proportioner.

Downloads data to PC with Microsoft® Windows 98 or later.

Part No. 248848

Data Reporting Kit without interface module.



PROVEN QUALITY. LEADING TECHNOLOGY.



Install Hardware

For 246085 only. For Kit 248848 continue on step 12.

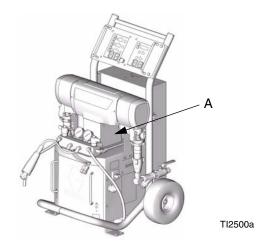
Turn Reactor main power OFF power supply.



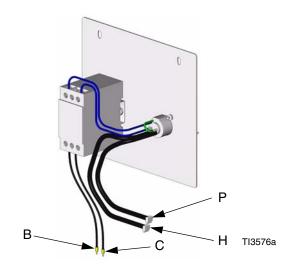


Read warnings in Reactor repair manual. Wait 5 min for stored voltage to discharge (E-30 and E-XP2 models only).

2. Remove side plate (A). The plate is on the right side of the Electric Reactor (shown) and on the left side of the Hydraulic Reactor.

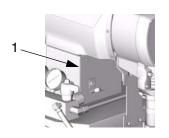


3. Thread wires (B, C) and cables (H, P) of interface module (1) through boot in top of cabinet.



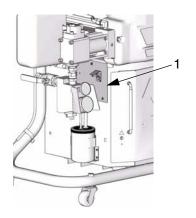
4. Attach interface module (1).

Electric Reactor



TI3575a

Hydraulic Reactor



TI7999a

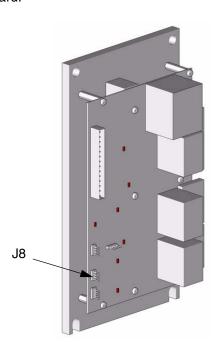
5. Open Reactor cabinet.



CAUTION

Before handling boards, put on a static conductive wrist strap to protect against static discharge which can damage boards. Follow instructions provided with wrist strap.

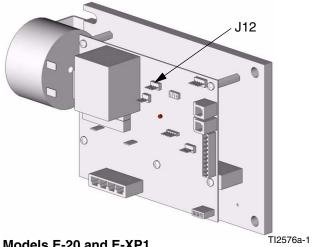
- 6. Put on static conductive wrist strap.
- 7. Connect HEAT cable to J8 on temperature control board.



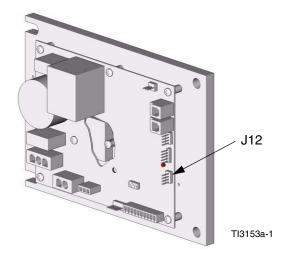
TI2575a

8. Connect PUMP cable to J12 on motor control board.

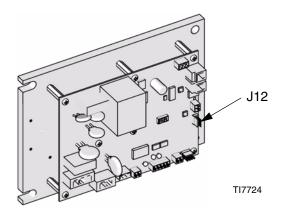
Models E-30 and E-XP2



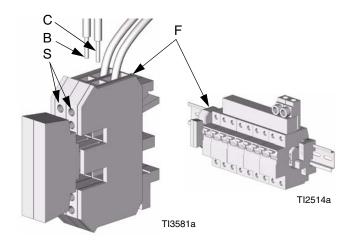
Models E-20 and E-XP1



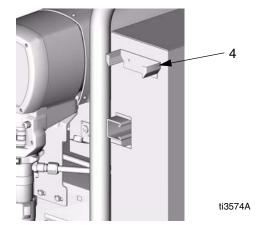
Models H-25 and H-XP2



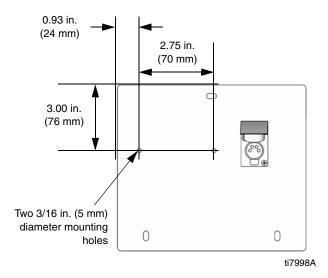
9. Insert wires (B, C) in top front terminals of fuse block (F) at circuit breaker module. Tighten screws (S).



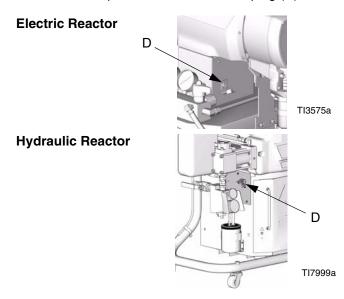
- 10. Close Reactor cabinet.
- 11. Drill holes as follows:
 - a. For Electric Reactor, drill holes using bracket (4)
 as template. Apply sealant (4c) to screw
 threads. Mount with screws (4a) and nuts (4b).



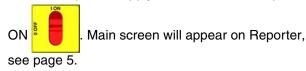
b. For Hydraulic Reactor, drill two holes exactly as shown below. Be careful not to damage components inside cabinet when drilling holes. Apply sealant (4c) to screw threads. Mount bracket (4) with screws (4a) and nuts (4b).



12. Connect Reporter cable to interface plug (D).

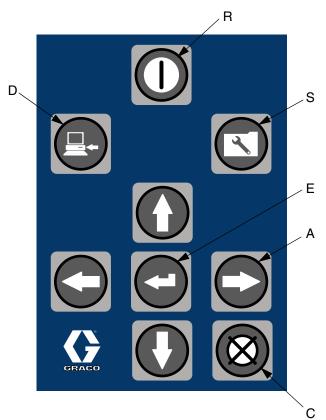


13. Reconnect power supply. Turn Reactor main power



Reporter is now ready to record data from Reactor, see page 5. To download data, first **Install Software**, page 7.

Keypad



Key:

- Record key
- Setup key S
- Ε Enter key
- Arrow keys (up, down, left, right)
- С Cancel key
- Download key

Screens



Reporter displays data received from Reactor. It is not a remote control for Reactor.

Main Screen

Main screen appears when powered up.

GRACO REPORTER REV 1.01 MAR 20 2003 12:48:12 45:32 HOURS LEFT

. Following message will appear momen-Press tarily, followed by Record screen.

> **GETTING REACTOR STATUS** PLEASE WAIT



If following message appears with audible alarm, Reporter is not properly connected to Reactor. Check connection.

> NO REACTOR **PRESENT**

RECORDING ABORTED!

Record Screen

Displays A, B, and hose temperatures, A and B pressures, cycles, and remaining recording time. Display reflects selections made on Setup screens, page 6.

	Α	В	HOSE
°F	160	160	160
PSI	1200	1200	
CYCLES		0	45:32



≥ If hose zone is in current control mode, display will show hose current, for example 14A.







Press O or to stop recording.

5

Setup Screens

Display must be at main screen, page 5. Press 🚺 to



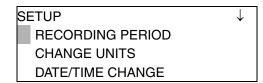
enter Setup. Press or to move through





Setup menu. Press







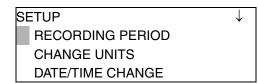






Recording Period

Reporter updates records at set intervals. At default of 10 sec, Reporter has 52:11 hours of recording time. Changing to 30 sec increases recording time to 156:33 hours; 1 min increases to 313:06 hours.







SELECT RECORD PERIOD 10 SECONDS 30 SECONDS 1 MINUTE





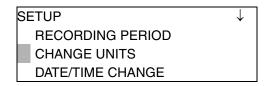


Press or to move through menu. Press

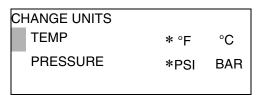


to select.

Change Units









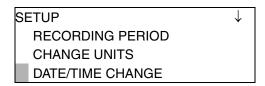




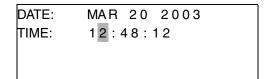


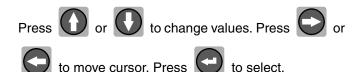
to select.

Date/Time Change









Delete Records





DELETE RECORDS?

ENTER TO DELETE CANCEL TO EXIT



ALL RECORDS WERE DELETED

Install Software



The Reactor Downloading program operates on PCs with Microsoft® Windows 98 or later.

- 1. Close all programs and applications.
- 2. Insert software CD (6) in CD ROM drive. If install starts automatically, go to step 6. If install does not start automatically, go to step 3.
- 3. From file menu in program manager or file manager, choose Run.
- 4. Type: d:\setup.exe (use letter corresponding to your CD ROM drive).
- 5. Press ENTER.
- 6. Follow instructions on screen. Software will load Reactor Downloading program to Start menu and will place icon on desktop.



On some PCs a Restart may be necessary after program is loaded.

Downloading

Hardware Connections

1. See drawing on page 14. Connect cable (7) to converter (2) and to appropriate serial port on PC.



If PC uses a USB port, connect a USB to RS-232 serial adapter between the PC and cable (7).

- 2. Remove Reporter cable from Reactor interface module (1) and insert in converter (2).
- 3. Connect power supply (8) to converter (2). Plug power supply into outlet.

Run Program

Main Window

Locate Menu Bar (M) and Tool Bar (T), for reference. See Fig. 1.

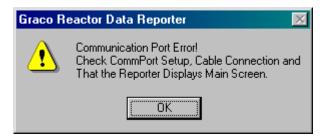
Start Reactor Downloading program on PC. Check that status indicator (L) at upper right of main window is green; also see Status Bar (S).



Clicking status indicator (L) turns CommPort Enable on and off, provided Reporter is properly connected to PC.

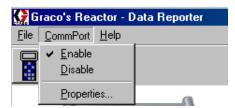


If indicator is red and following message appears, connection is broken.

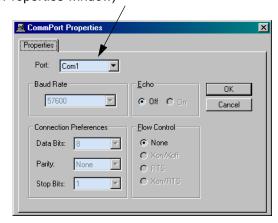


Check that:

CommPort is enabled



correct CommPort is selected (CommPort Properties window)



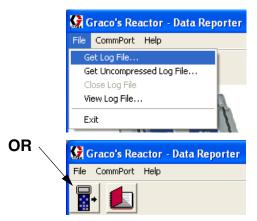
- cable (7) is connected properly, see left
- Reporter is displaying main screen, page 5.



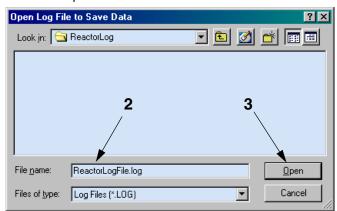
Fig. 1. Main Window

Get Log File

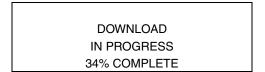
 Access by File>Get Log File on menu bar, or left button on tool bar.



- 2. Application will prompt you to open a log file. Enter a file name. Do not use spaces in the file name.
- 3. Click Open.



 Data will download to log file. Download screen will display. Downloading an entire set of records will take about 3 minutes.



If following message appears with audible alarm, Reporter is not properly connected to PC. Check connection.

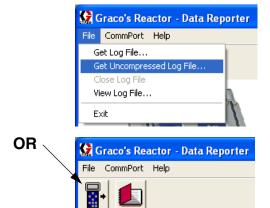
NO RESPONSE FROM PC

DOWNLOADING
DID NOT OCCUR

Get Uncompressed Log File

For non-English Microsoft Windows XP operating systems, "Get Uncompressed Log File" should be used if the "Get Log File" command fails. The uncompressed option takes about five times longer than the compressed mode.

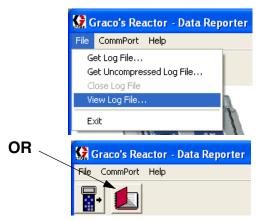
 Access by File>Get Uncompressed Log File on menu bar, or left button on tool bar.



 Continue to follow Get Log File procedure at left.
 Downloading an entire set of records will take about 15 minutes.

View Log File

1. Access by File>View Log File on menu bar, or right button on tool bar.



File can be opened as a text file in Notepad or Wordpad, or in a spreadsheet program such as Microsoft Excel, page 11.

Exit

Exits program.

Open File in Excel

- 1. Start Excel.
- 2. Change file type to All Files (*.*). See Fig. 2.

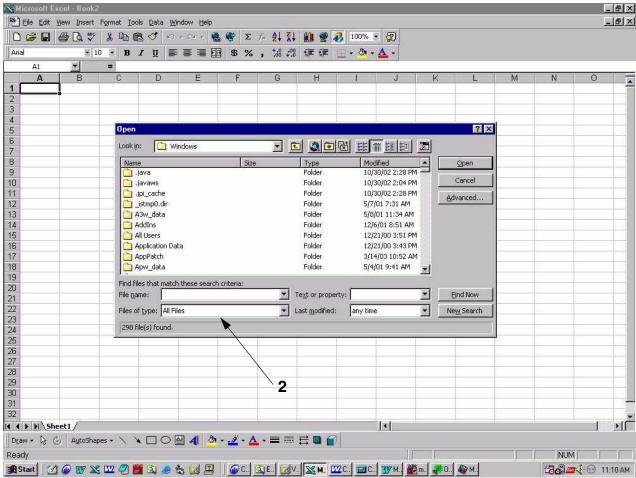


Fig. 2. Excel Window

3. Locate saved ReactorLogFile.log. See Fig. 3.

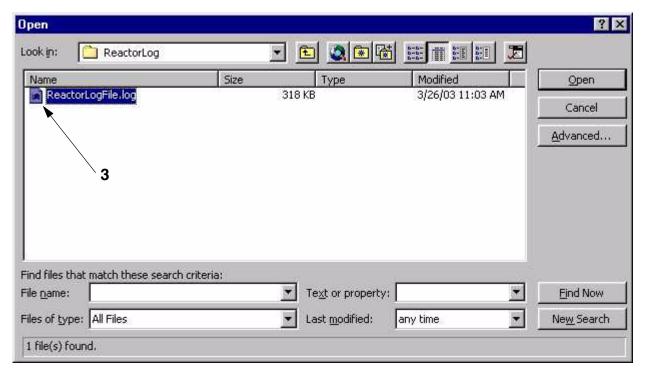


Fig. 3. Reactor Log File Window

- 4. Check that file is delimited. See Fig. 4.
- 5. Click Finish. See Fig. 4.

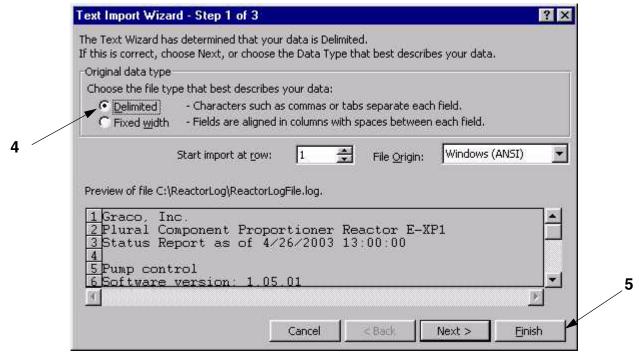


Fig. 4. Check that File is Delimited

6. Data is imported into formatted Excel document. See Fig. 5.

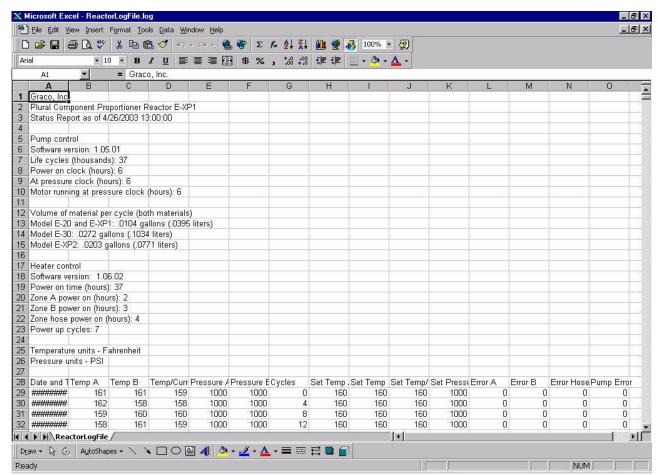
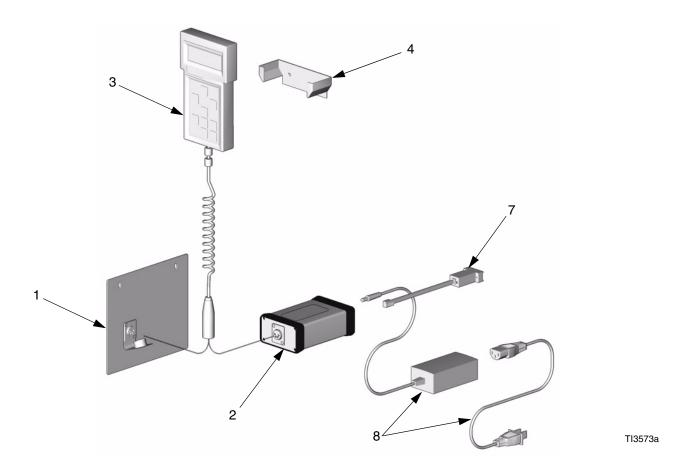


Fig. 5. Sample Formatted Excel Document

Parts

Models 246085 and 248848

Ref. No.	Part No. Description	Ottv	Ref. No.	Part No. Description Q	ty
NO.	•	Qty	4a	103312 . SCREW, machine; 8-32 x 3/8 in.	2
1	246122 MODULE, interface	1		(10 mm) ´	
	(model 246085 only)		4b	100284 . NUT, hex; 8-32	2
2	246597 CONVERTER, RS-232 to RS-485	1	4c	113500 . ADHESIVE; 0.5 cc	1
3	246771 REPORTER; includes 3a	1	6	15C491 SOFTWARE, CD ROM; not shown	1
3a	118347 . COVER; not shown	1	7	117827 CABLE, 9 pin D-SUB to RJ11	1
4	246772 BRACKET; includes 4a-4c	1	8	117829 POWER SUPPLY, 12V	1



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This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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