Installation-Operation

Data Reporter

309867G

EN

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 though Windows XP.

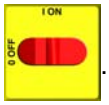
Part No. 248848

Data Reporting Kit without interface module.

PROVEN QUALITY. LEADING TECHNOLOGY.

Install Hardware

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

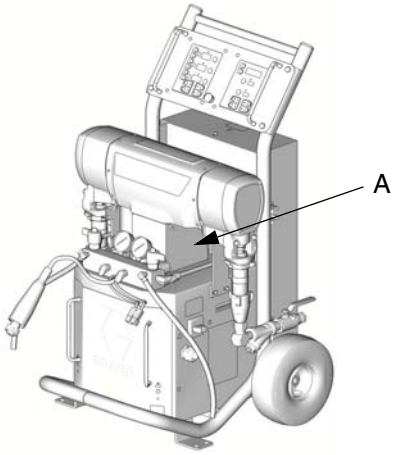
1. Turn Reactor main power OFF 

. Disconnect power supply.

WARNING

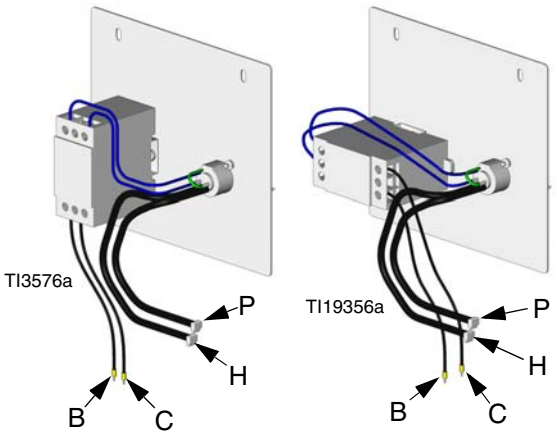
Read warnings in Reactor repair manual. Wait 5 min for stored voltage to discharge (E-30 and E-XP2 models only).

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.



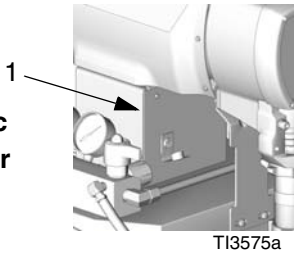
3. *For Electric Reactor,* thread wires (B, C) and cables (H, P) of interface module (1) through boot in top of cabinet.
For Hydraulic Reactors, orient power supply 90° as shown by moving DIN rail (only 1 nut is used).

Electric Reactor **Hydraulic Reactor**

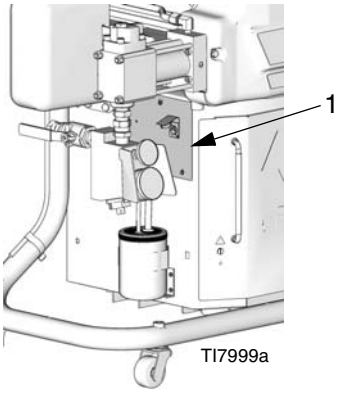


4. Attach interface module (1).

Electric Reactor



Hydraulic Reactor



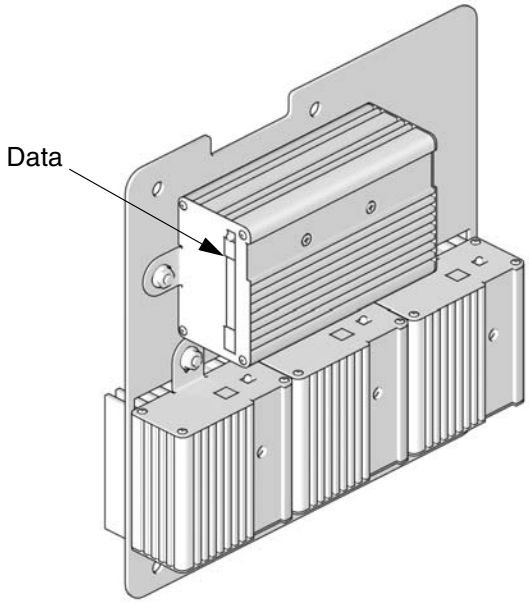
5. Open Reactor cabinet.

⚠ 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.

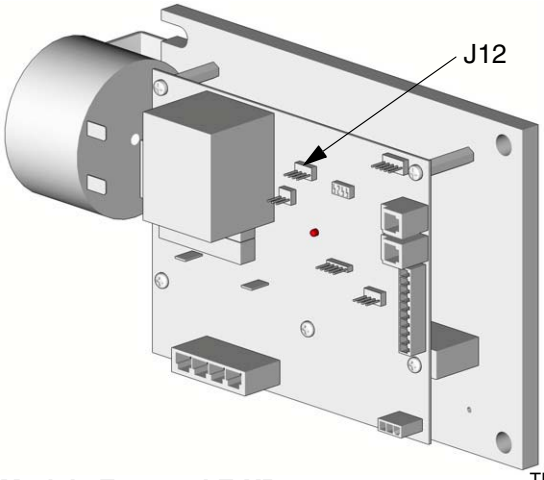
7. Connect HEAT cable to temperature control module data connector.



Temperature Control Module

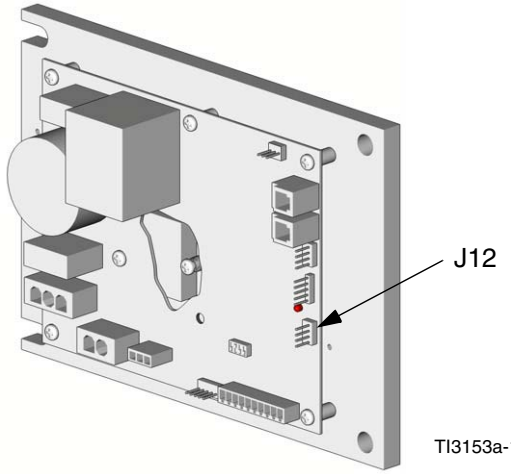
8. Connect PUMP cable to J12 on motor control board.

Models E-30 and E-XP2



TI2576a-1

Models E-20 and E-XP1



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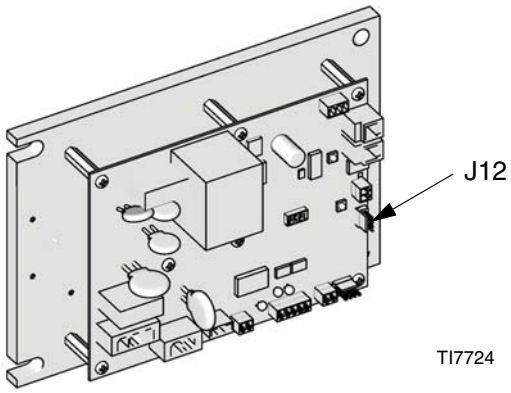
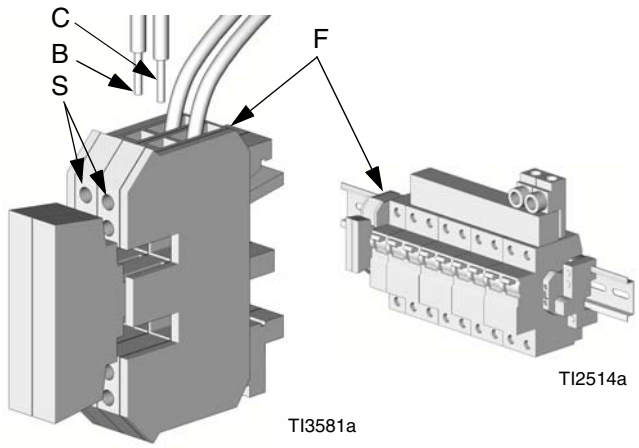
Models Hydraulic Reactors



TI7724

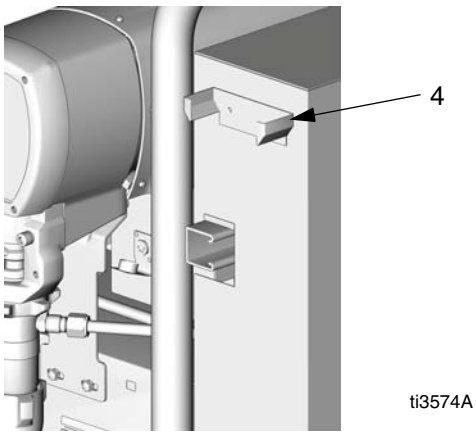
9. Insert wires (B, C) in top front terminals of fuse block (F) at circuit breaker module. Tighten screws (S).



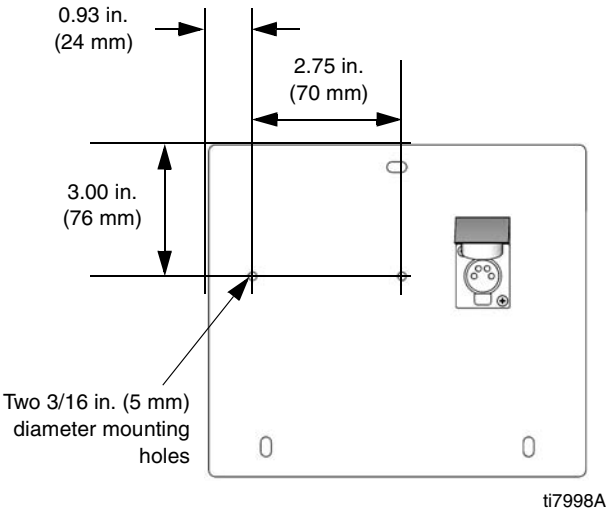
10. Close Reactor cabinet.

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).

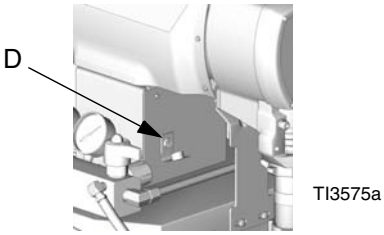


    b. *For Hydraulic Reactor,* drill two holes exactly as shown below. Be careful not to damage components inside cabinet when drilling holes. Apply sealant (4c) to screw threads. Mount bracket (4) with screws (4a) and nuts (4b).

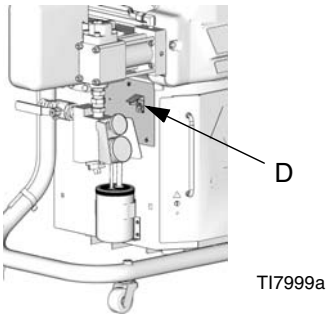


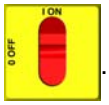
12. Connect Reporter cable to interface plug (D).

Electric Reactor



Hydraulic Reactor

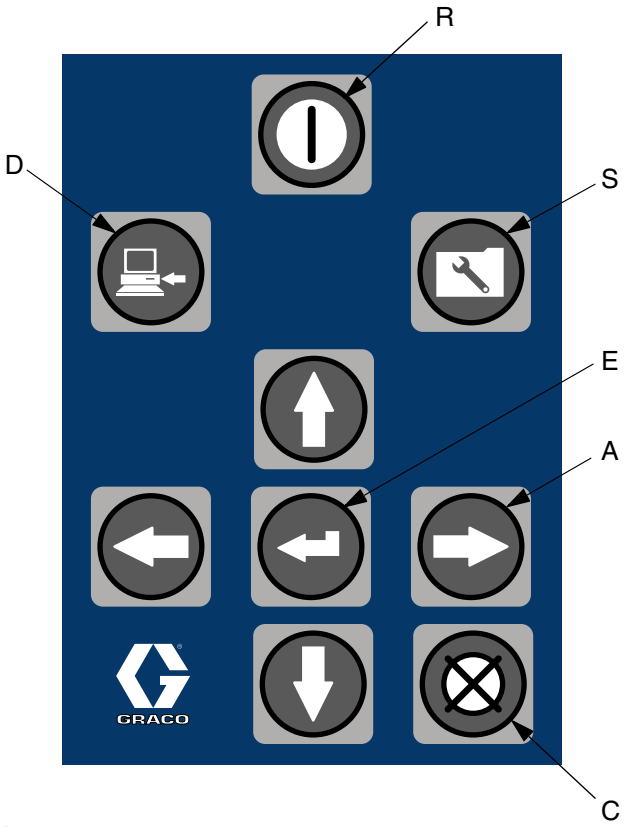


13. Reconnect power supply. Turn Reactor main power ON 

. Main screen will appear on Reporter, see page 5.

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

Keypad



Key:

R Record key
S Setup key
E Enter key
A Arrow keys (up, down, left, right)
C Cancel key
D 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

Press . Following message will appear momentarily, 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.

	A	B	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 or to stop recording.

Setup Screens

Display must be at main screen, page 5. Press to enter Setup. Press or to move through Setup menu. Press to select.

```
SETUP                    ↓
  RECORDING PERIOD
  CHANGE UNITS
  DATE/TIME CHANGE
```

```
SETUP                    ↑
  DELETE RECORDS
```

Press or to exit Setup.

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.

```
SETUP                    ↓
  RECORDING PERIOD
  CHANGE UNITS
  DATE/TIME CHANGE
```

Press .

```
SELECT RECORD PERIOD
  10 SECONDS
  30 SECONDS
  1 MINUTE
```

Press or to move through menu. Press to select.

Change Units

```
SETUP                    ↓
  RECORDING PERIOD
  CHANGE UNITS
  DATE/TIME CHANGE
```

Press .

```
CHANGE UNITS
  TEMP          * °F    °C
  PRESSURE      *PSI    BAR
```

Press or to move through menu. Press or to move * between units. Press to select.

Date/Time Change

```
SETUP                    ↓
  RECORDING PERIOD
  CHANGE UNITS
  DATE/TIME CHANGE
```

Press .

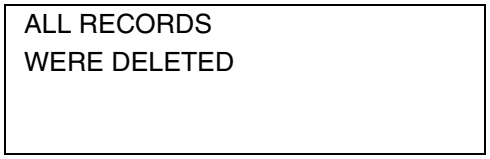
```
DATE:     MAR 20 2003
TIME:     12:48:12
```

Press or to change values. Press or to move cursor. Press to select.

Delete Records

Press .

Press to delete. Press to exit.



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

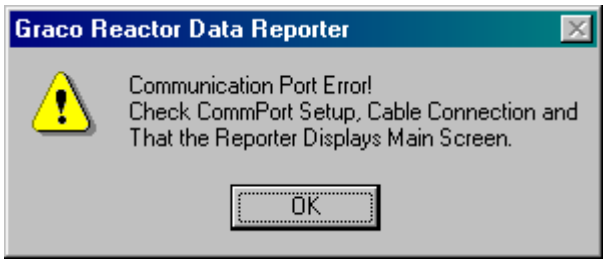
Main Window

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).

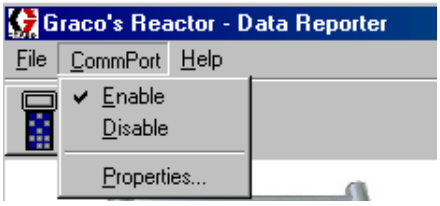
Clicking status indicator (L) turns CommPort Enable on and off, provided Reporter is properly connected to PC.

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

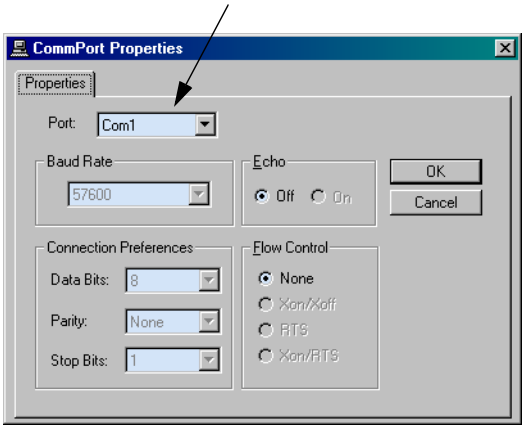


Check that:

- CommPort is enabled



- correct CommPort is selected (CommPort Properties window)

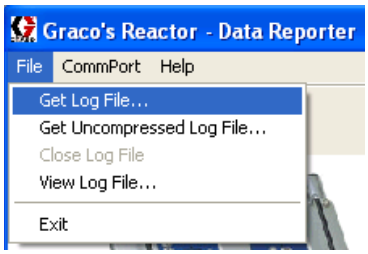


- cable (7) is connected properly, see left
- Reporter is displaying main screen, page 5.

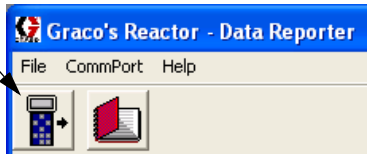
FIG. 1. Main Window

Get Log File

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

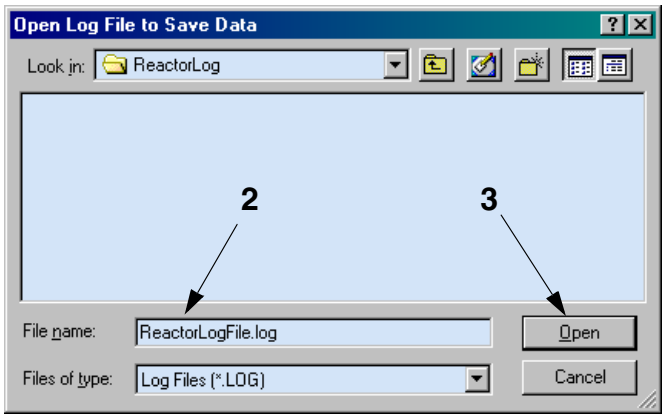


OR



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.



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

DOWNLOAD IN PROGRESS 34% COMPLETE

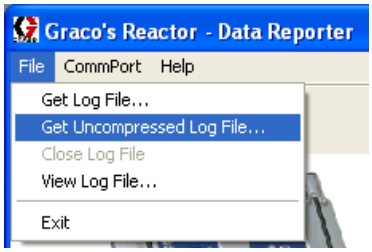
If following message appears with audible alarm, Reporter is not properly connected to PC. Check connection.

NO RESPONSE FROM PC DOWNLOADING DID NOT OCCUR

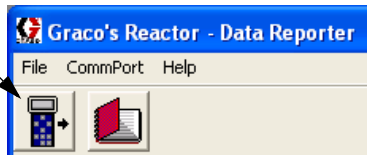
Get Uncompressed Log File

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.

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



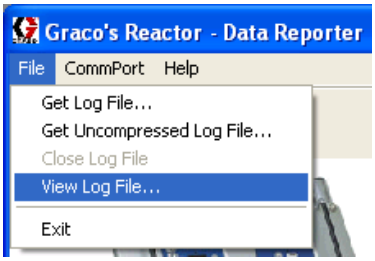
OR



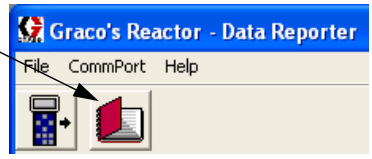
2. Continue to follow Get Log File procedure at left. Downloading an entire set of records will take about 15 minutes.

View Log File

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



OR



2. 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.

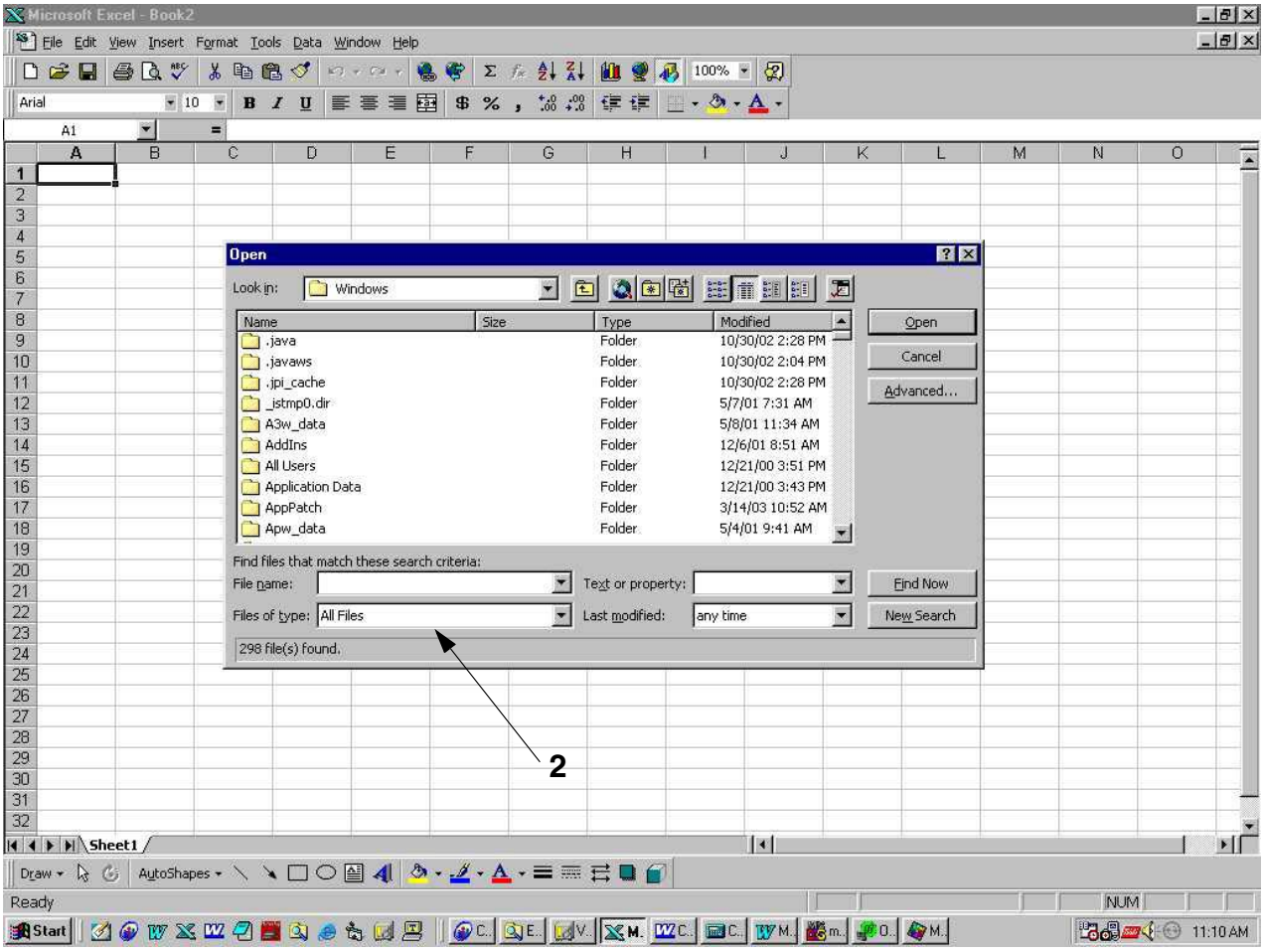


FIG. 2. Excel Window

3. Locate saved ReactorLogFile.log. See FIG. 3.

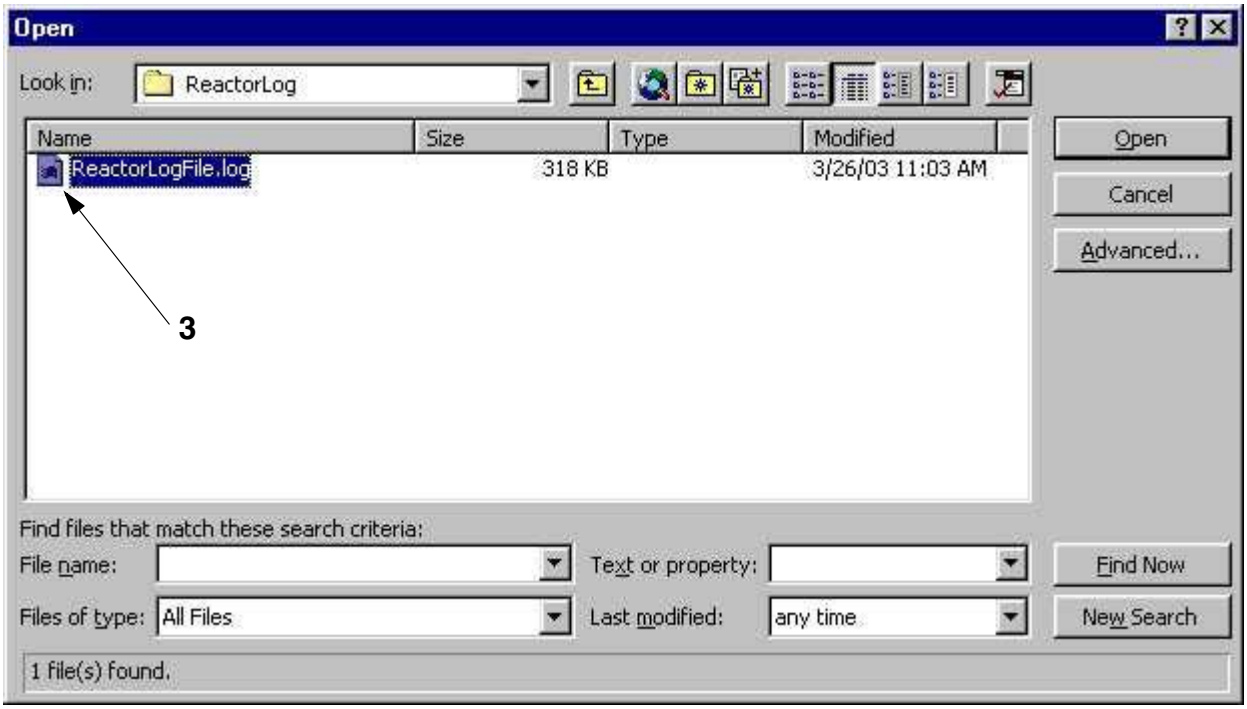


FIG. 3. Reactor Log File Window

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.

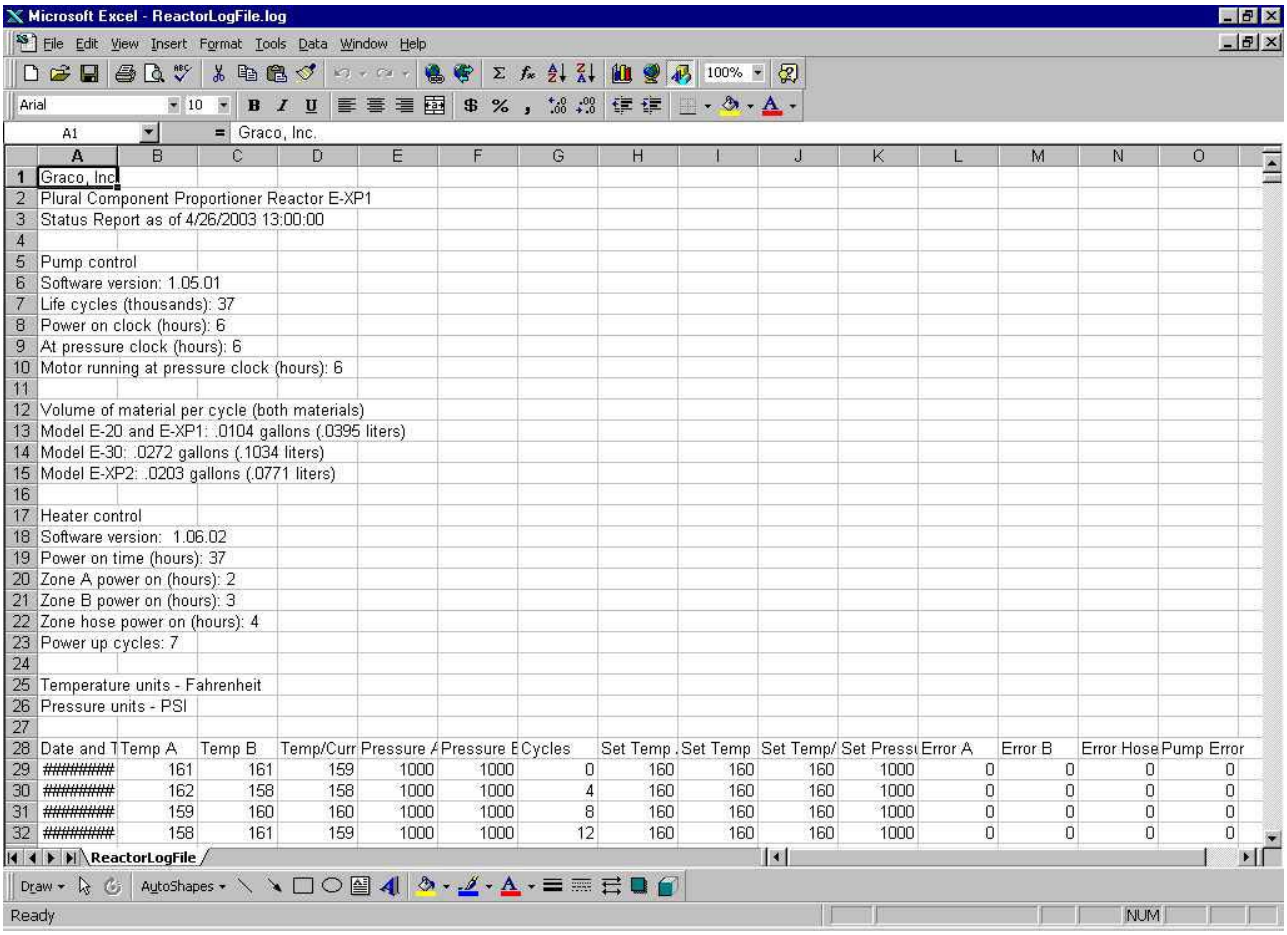
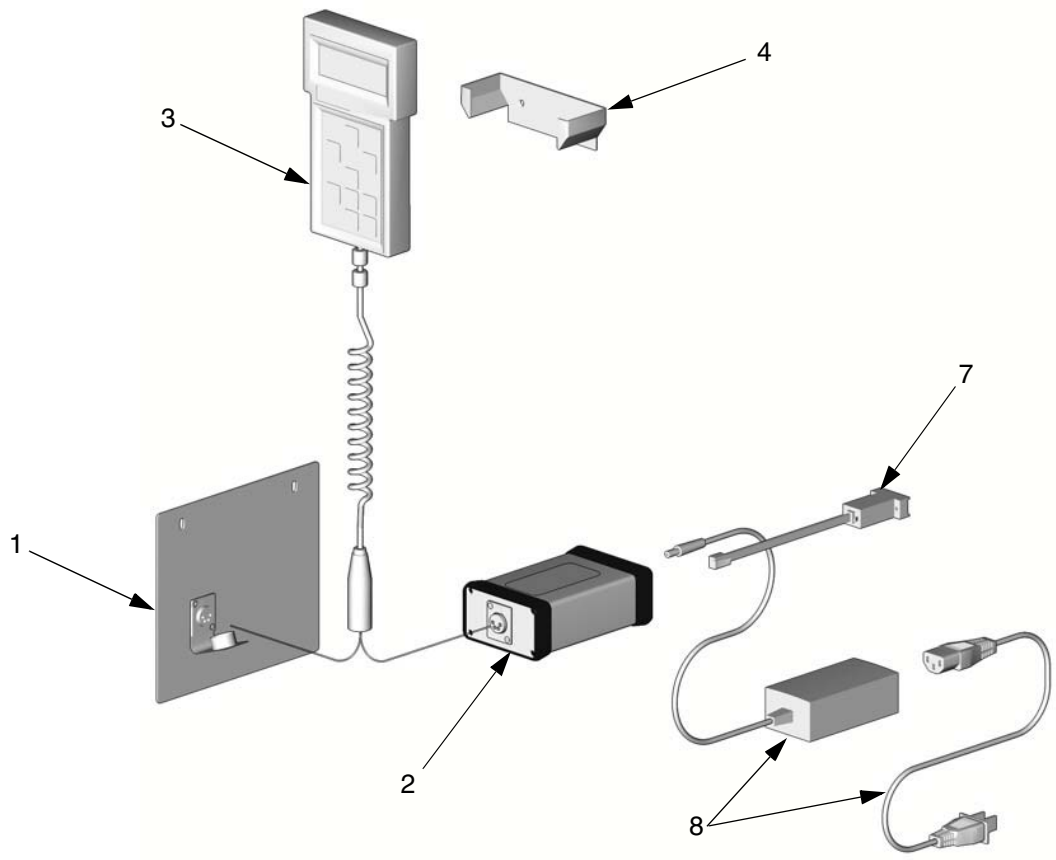


FIG. 5. Sample Formatted Excel Document

Parts

Models 246085 and 248848

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



TI3573a

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

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.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

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Original instructions. This manual contains English. MM 309867

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