Instructions - Parts



332590C

ΕN

Graco InSite[™]

Remote Reporting Field Installation Kit

For remote reporting of actual temperature, temperature setpoint, actual pressure, pressure setpoint, cycles, and GPS location from a Reactor[®] proportioner.

For professional use only.

Not approved for use in explosive atmospheres or hazardous locations.

Model 24T278



Important Safety Instructions

Read all warnings and instructions in this manual and in your Reactor manual. Save all instructions.



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Related Manuals

Manuals are available at www.graco.com. Component manuals in English:

Manual	Description
312062	Hydraulic Reactor Operation
312063	Hydraulic Reactor Repair
312065	Electric Reactor Operation
312066	Electric Reactor Repair

Reactor Compatibility

The Graco InSite is compatible with the following Reac tor models:

Reactor Model	Part Numbers	
	259025	
E-20	259030	
	259034	
E-30	259026	
	259031	
	259035	
	259057	
	259058	
	259059	
E-XP1	259024	
	259029	
	259033	

Reactor Model	Part Numbers	
	259028	
E-XP2	259032	
	259036	
	255400	
	255401	
Ц 25	255402	
H-25	255406	
	255407	
	255408	
	253400	
	253401	
H-40	253402	
	253407	
	253408	
	256886	
	256887	
	253725	
	253726	
H-50	253727	
	256505	
	256506	
	255403	
H-XP2	255404	
	255405	
	253403	
H-XP3	253404	
	253405	

Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclama tion point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.



Installation

NOTICE

To prevent damage to the Graco InSite, do not expose to rain.



To prevent electric shock, wait 5 minutes after turning power OFF for stored voltage to discharge (E-30 and E-XP2 models only) before entering Reactor electrical cabinet. Read warnings in Reactor repair manual. All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.

Disce

. Disconnect

power. Wait 5 minutes for stored voltage to dis charge.

2. After 5 minutes, remove Reactor cabinet front access door.

Install Control Box

1. Turn Reactor main power OFF

3. Remove screws then remove side plate (A).

NOTE: The plate is on the right side of the Electric Reactor and on the left side of the Hydraulic Reactor.



4. *Electric Reactor only:* route all wires and cables from control box (2) through split rubber sheet in top of cabinet.

NOTE: *Electric Reactor only:* When installing the control box in the following step, pull wires through the split rub ber sheet in top of cabinet while maneuvering the con trol box into place.



- 5. Install control box:
- *Electric Reactor only:* Tilt control box (2) right and forward then insert left of insulated tubing. Secure with screws (7).

NOTE: If the control box does not easily slide into place, loosening or removing the motor cover can help.



 Hydraulic Reactor only: Use three screws (7) to install control box (2) in location shown.



Attach Control Box Electrical Connections

- 6. Find the DIN rail inside of the Reactor cabinet. See FIG. 1, FIG. 2, or FIG. 3 on page 5.
- Electric Reactors only, see FiG. 1 and FiG. 2 on page 5 to identify whether your system uses style 1 or style 2 of DIN rail.

NOTE: The difference between style 1 and style 2 DIN rails is the layout of the terminal blocks on the left hand side.

NOTE: In the following steps, ensure stripped wire ends are fully inserted into terminal connectors.

- 8. Insert green grounding wire (G) from control box into grounding terminal block (6) supplied with kit, then tighten screw (Y) to secure wire.
- 9. Install grounding terminal block (6) onto right end of DIN rail then tighten center screw (X) to secure in place. See FIG. 1 for DIN rail style 1 or FIG. 2 for DIN rail style 2.

NOTE: The black power wires (B, C) are interchange able.

 For electric Reactor DIN rail style 1, loosen screws (S) then insert black power wires (B, C) into same slots as existing wires (Z) as shown in Fig. 1. Tighten screws (S).

For electric Reactor DIN rail style 2, insert black power wires (B, C) into the bottom of the highlighted terminal blocks (F) shown in FIG. 2. Tighten screws (S).

For hydraulic Reactors, loosen screws (S) then insert black power wires (B, C) into the top of the highlighted terminal blocks (F) shown in FIG. 3. Tighten screws (S).

11. Pull on all wires (B, C, G, Z) to ensure the connec tions are secure. Re-install and tighten any loose wires.



FIG. 1: Electric Reactor DIN Rail Style 1







FIG. 3: Hydraulic Reactor DIN Rail Style 3

- 12. On the left wall inside the Reactor cabinet, locate and identify whether your system uses the tempera ture control module or temperature control board. See FIG. 4 and FIG. 5 for an example of each.
- 13. For models with temperature control board, connect TEMP cable (T) to J8 on board. See FIG. 4.



FIG. 4: Temperature Control Board

14. For models with temperature control module, remove cover kit (AA) then connect TEMP cable to J8 on module. Re-install cover kit (AA). See FIG. 5.

NOTE: The cap on the HEAT cable plug may prevent plug from being fully inserted into the temperature con trol module. Press plug to the right then press plug the rest of the way into place.



FIG. 5: Temperature Control Module

15. Connect PUMP cable (P) to J12 on motor control board.

Models E-30 and E-XP2



Models E-20 and E-XP1



Hydraulic Reactor Models



- 16. Secure power cables away from hose transformer hot surfaces.
- 17. Re-install Reactor cabinet front access door.

Install Cellular Module

NOTICE

To prevent cracking the plastic shell of the cellular module (1), do not overtighten nuts (5) when install ing onto bracket (3).

 Use two locking nuts (5) to secure cellular module (1) to bracket (3). Orient module (1) on bracket so LED window (AA) is easily visible to operator when bracket is installed on Reactor.



 Loosen left side acorn nuts (AN) holding Reactor display to frame until display can be lifted enough to slide bracket between frame and display. See FIG. 7.

NOTE: It is not necessary to completely remove the acorn nuts on the electric Reactor.

- 20. Slide bracket between display and frame so that bracket mounts to the behind the display with the LED status window (AA) visible to operator and the cable connector on the bottom. See FIG. 7.
- 21. Tighten acorn nuts (AN) to secure bracket in place. See FIG. 7.
- 22. Connect 4-pin end of cable (4) to cellular module (1) connector. See FIG. 7.
- 23. Route cellular module cable (4) to control box (D). Secure with wire ties (8) as needed.
- 24. Connect other end of cellular module cable (4) to control box (D) connector.





Update Software, If Needed

NOTE: If the Reactor has a temperature control module and was built before 2010, a software update is needed. Otherwise, installation is complete.

- 25. See step 12 on page 6 to determine if system uses a temperature control board or a temperature con trol module.
- 26. If the Reactor has a Temperature Control Module, check Reactor identification label for the date code which is in the format "G13A". The number in the date code is the last two digits of the year built. If the year built is 2010 or later, a software update is not needed and installation is complete. Proceed to **Operation** on page 9.
- 27. Update the software:
 - a. Turn Reactor power switch OFF



 Insert software update token (9) in back of the Temperature Control Module above the power wires.



c. Turn the Reactor power switch ON



NOTE: During the software update, the green LED on the Temperature Control Module will blink rapidly and the display will show "E99". When the update is com plete, the green light on the Temperature Control Mod ule will blink slowly and the display will work normally.

d. When the software update is complete, turn

Reactor power switch OFF

- e. Remove the software update token (9) from the Temperature Control Module.
- 28. With Reactor power switch OFF **1990**, press and

hold down the Actual Temperature key **(**) on the Reactor display and turn the Reactor power switch



. Release the Actual Temperature key



after power has been turned ON.

29. Press the Zone A UP arrow key four times to go to the software version.

NOTE: The software version will consist of a number on each of the three temperature displays.

- 30. If the software version displayed is 1, 1, 5 or 1, 1, 6 (software versions 1.01.05 and 1.01.06), the soft ware did not update. Go back to step 27 to update the software.
- 31. *If any other software version is displayed,* the soft ware has been successfully updated.

NOTE: Module is now ready to operate, see page 9.

Operation

Registering and Activating the Graco InSite

To register and activate the Graco InSite, go to www.GracoInSite.com, click on "InSite Login", then fol low the instructions on the screen.

Find and record the 15 digit serial number from the cel lular box below:

Verify Module Status

To check the status of the cellular module, locate the status LEDs on the module then refer to the following chart.

LED Status	Description
Green flashing	Finding GPS location
Green solid	GPS location identified
Orange flashing	Cellular connection in process
Orange solid	Cellular connection established
Green and orange off	Reactor power is OFF



Troubleshooting



To prevent electric shock, wait 5 minutes after turning power OFF for stored voltage to discharge (E-30 and E-XP2 models only) before entering Reactor electrical cabinet. Read warnings in Reactor repair manual. All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.

Problem	Cause	Solution
No module status LEDs are illumi nated.	No power to control box.	Turn Reactor ON.
		Ensure unit is properly installed. See Installation on page 3.
		Verify line voltage to the power sup ply. If line voltage is present and 12V is not present at the output of the power supply, replace power supply.
	No power to cellular module.	Turn Reactor ON.
		Ensure unit is properly installed. See Installation on page 3.
		Verify 12V at output of the power supply.
		Make sure the M8, 4-pin to M12, 8-pin cable is installed between cel lular module and control box.
Has not identified GPS location (green module status LED flashing).	Still identifying location.	Wait a few minutes for the unit to identify the location.
	Unable to identify location. In a loca tion where GPS lock cannot occur. Buildings and warehouses often prevent GPS locks.	Move system to a location with a clear view of the sky.
		Use extension cable 16X521 and move cellular module to a location with a clear view of the sky.
Has not established a cellular con nection (orange module status flashing).	Still establishing cellular connection.	Wait a few minutes for unit to estab lish the connection.
	Unable to establish cellular connec tion.	Move system to a location with cel lular service to establish cellular connection.
		Use extension cable 16X521 and move cellular module to a location with a clear view of the sky.

Problem	Cause	Solution
Cannot view data for my unit(s) on website.	Graco InSite unit has not been acti vated.	Activate unit. See Registering and Activating the Graco InSite on page 9.
Temperature data not displayed on website.	4-pin connector is not plugged into the correct terminal on the tempera ture control board or module.	Ensure unit is properly installed. See Installation on page 3.
	Reactor temperature measurement is not working.	See Reactor repair manual.
Hose zone temperature data not displayed on website.	The RTD or thermocouple is not correctly installed on the hose or is broken.	See Reactor repair manual.
Pressure data not displayed on website.	4-pin connector is not plugged into the correct terminal on the tempera ture control board or module.	Ensure unit is properly installed. See Installation on page 3.
	Reactor pressure measurement is not working.	See Reactor repair manual.
Pressure setpoints not displayed on website.	Unit installed on a hydraulic Reac tor.	Hydraulic Reactor pressure is set manually. InSite will not report a pressure setpoint on hydraulic Reactors.

Parts

Ref	Part	Description	Qty
1	24R926	MODULE, cellular and GPS	1
2	262922	CONTROL BOX	1
. 2a		ENCLOSURE, power supply	1
. 2b		BRACKET	1
. 2c	127191	HARNESS, wire (not shown)	1
. 2d		NUTS, keps, hex head, 10-24, with	4
		lock washers	
. 2e		SPACER, nylon	1
. 2f		NUT, 4-40	1
. 2g		LABEL	1
. 2h	127189	CONVERTER	1
. 2i	127188	POWER SUPPLY, 12V	1
3	16V506	BRACKET, mounting	1
4	24T050	CABLE, M8 4-pin Female to M12 8-pin	1
		Male, 1.5 meters	
5		NUT, locking, 8-32, with nylon insert	2
6	120839	BLOCK, terminal ground (not shown)	1
7		SCREWS, 8-32 x 3/8 in. panhead (not	3
		shown)	
8		WIRE TIES, 7 in.(not shown)	6
9	16W459	SOFTWARE UPDATE TOKEN,	1
		Reactor heater	

--- Not for sale.





Technical Data

Graco InSite Remote Reporting Field Installation Kit			
	US	Metric	
Control Box Weight	2.3 lb	1.0 kg	
Cellular Module Weight	0.5 lb	0.2 kg	
Voltage into Control Box	100-240VAC, 50-60 Hz		
Operating Temperature	-22 to 167°F	-30 to 75°C	
Storage Temperature	-40 to 185°F	-40 to 85°C	
Ambient Temperature during Battery Charging	41 to 104°F	5 to 40°C	
FCC ID	XPYLISAU200		
IC ID (Industry Canada)	8595A-LISAU200		
Transmit Power Data			
Technology	Frequency Band (MHz)	TX Power (dbm, Watts)	
GSM/GPRS	900	33 dbm, 2 W	
EGPRS	900	27 dbm, 0.5 W	
WCDMA	900 (FDDVII)	24 dbm, 0.25 W	
GSM/GPRS	1800	30 dbm, 1 W	
EGPRS	1800	27 dbm, 0.5 W	
WCDMA	2100 (FDDI)	24 dbm, 0.254 W	

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 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.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

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Graco Information

For the latest information about Graco products, visit www.graco.com.

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.

For patent information, see www.graco.com/patents.

Original instructions. This manual contains English. MM 332590

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