



INSTRUCTIONS

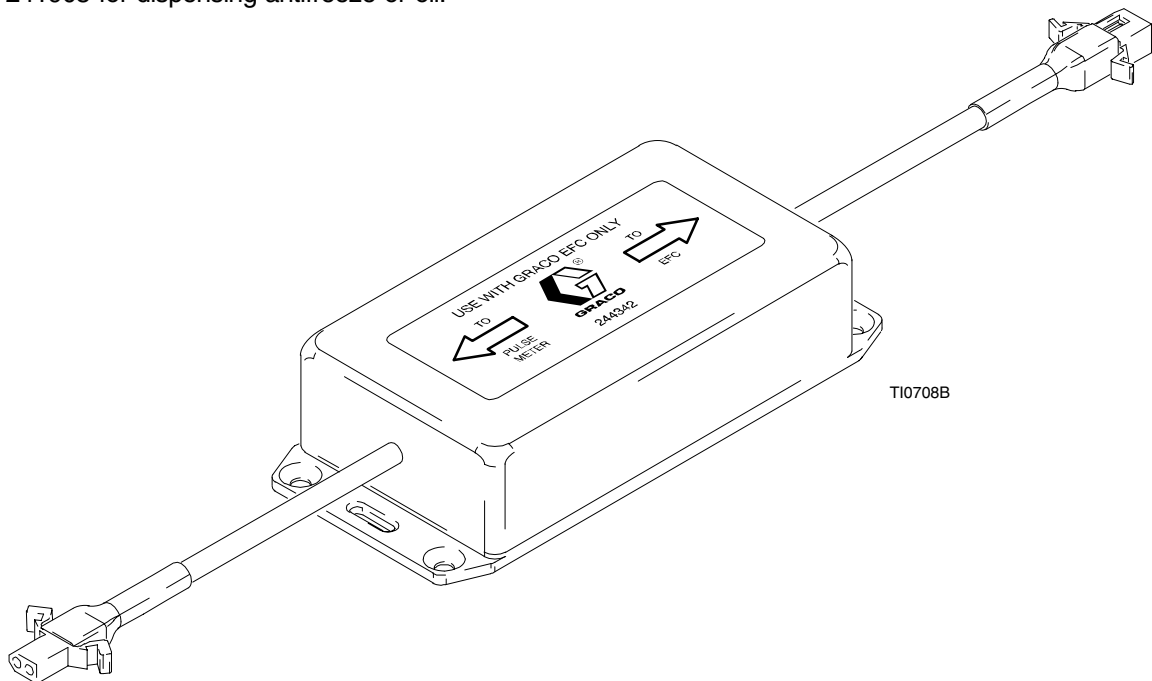
This manual contains important
warnings and information.
READ AND KEEP FOR REFERENCE.

*First choice when
quality counts.™*

Electronic Fluid Commander Meter Pulse Converter

Part No. 244342

A converter that allows the Graco Pulse Meter (215474)
to work with the Electronic Fluid Commander (EFC)
Dispensing Controls 235531, 235532, 232076, 232077,
240448, or 241905 for dispensing antifreeze or oil.



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Symbols

Warning Symbol



This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

Caution Symbol



This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.

WARNING



INSTRUCTIONS

EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- This equipment is for professional use only.
- Read all instruction manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are uncertain about usage, call your Graco distributor.
- Do not alter or modify this equipment.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Do not exceed the maximum working pressure of the lowest rated system component. See the instruction manuals of the individual system components for their maximum working pressures.
- Handle hoses carefully. Do not pull on hoses to move equipment.
- Route hoses away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose Graco hoses to temperatures above 66°C (150°F) or below -40°C (-40°F).
- Do not stop or deflect fluid leaks with your hand, body, glove, or rag.
- Follow appropriate **Shutdown Procedures** whenever you stop dispensing; or clean, check, or service the equipment.
- Comply with all applicable local, state, and national fire, electrical, and safety regulations.



FIRE AND EXPLOSION HAZARD

Improper grounding, poor ventilation, open flames or sparks can cause a hazardous condition and result in a fire or explosion and serious injury.

- Connect the electronic dispensing control to a grounded outlet. Ground the other equipment as instructed in their separate instruction manuals.
- All electrical products must be wired by a qualified electrician.
- The control and all electrical products described in this manual must be installed in a non-hazardous location.
- If there is any static sparking or you feel an electric shock while using this equipment, **stop dispensing immediately**. Do not use the equipment until you identify and correct the problem.
- Keep liquids away from the electrical components.
- Disconnect electrical power at the main switch before servicing the equipment.
- Keep the dispense area free of debris, including solvent, rags, and gasoline.
- Do not smoke in the dispense area.
- Keep away from sources of heat.

Installation

Mount the Converter

Mount the converter (Fig.1) to the wall or other secure surface using the mounting holes. Do not let the unit hang unsecured.

⚠ CAUTION

Do not mount the pulse converter near a heat source.

Connect the Converter

NOTE: When connecting the converter to the pulse meter, use only the connecting cables permanently attached to each unit. Do not use extension cables to lengthen the distance between the pulse meter and the converter. **A distance greater than 24 inches (61 cm) between the units can degrade the signal.**

1. Turn off the Electronic Fluid Commander and unplug it.
2. Connect the converter to the pulse meter first using the connector with two female sockets.
3. Connect the converter to the Electronic Fluid Commander (EFC) using the remaining male connector.
4. Plug in the Electronic Fluid Commander and turn on the switch at the rear of the control.

Note: During power-up, all display segments must show and all stations and dispense lights must light steadily for 3 to 4 seconds. When the display shows four dashes, enter your security code. (Refer to the Electronic Fluid Commander manual for details).

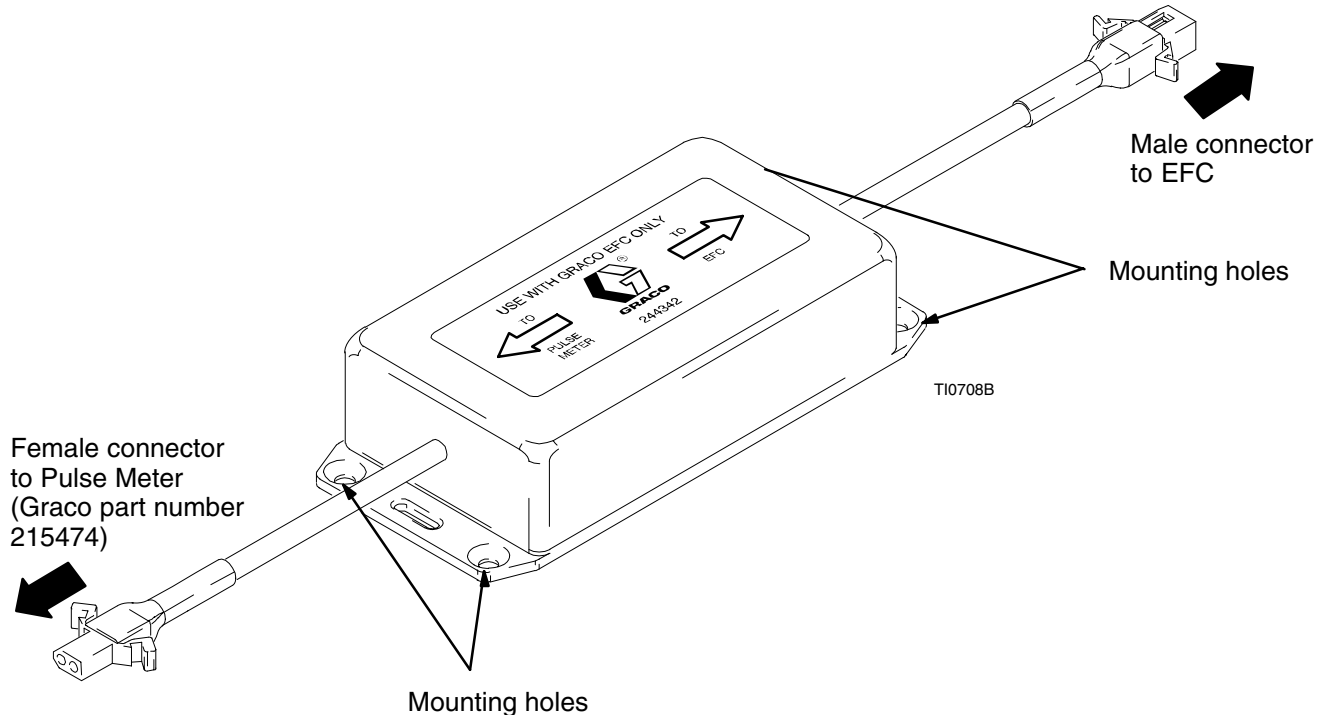


Fig. 1

Technical Data

Pulse Converter Technical Data

Category	Data
Operating temperature	-4°F (-20°C) to 176°F (80°C)
Max. VDC	15 VDC at 20mA
Wiring Gauge Required	18 AWG 2 wire / 90V
Wiring Polarity	Red = + (positive)
	Black = - (negative)

Graco Standard Warranty

Graco warrants all equipment 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.

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 Phone Number

TO PLACE AN ORDER, contact your Graco distributor, or call this number to identify the distributor closest to you:

1-800-533-9655 Toll Free

612-623-6928

612-378-3590 Fax

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PRINTED IN USA 309276 February 2001