Informer® Fluid Monitoring Kits

Use to monitor flow rate and track material use. For professional use only.

Important Safety Instructions
Read all warnings and instructions in this manual. Save these instructions.

See the G3000 meter manual (308778) or Coriolis meter manual (313599) for flow meter maximum working pressure.

See page 3 for kit information, including approvals.

PROVEN QUALITY. LEADING TECHNOLOGY.
Contents

Informer Models and Kits ........................................... 3
Warnings ................................................................. 5
Installation ............................................................. 8
  Overview ................................................................ 8
  Non-Hazardous Locations ........................................... 9
  Hazardous Locations ................................................. 10
Grounding .................................................................... 12
Cable Connections ...................................................... 12
Electrical Connections ................................................. 13
Operation ..................................................................... 16
  Pressure Relief Procedure ........................................... 16
  Flow Meter Operation ............................................... 16
  Meter Calibration ...................................................... 17
  Setting Modbus Address ............................................. 18
Update Software ......................................................... 18
Replace Battery ......................................................... 19
Display Module ........................................................... 20
  Display Information .................................................. 20
  Operation Modes ..................................................... 20
  Screen Navigation and Editing .................................... 20
  Icons ..................................................................... 21
Run Screens .............................................................. 23
Password Screen ......................................................... 24
Setup Screens ............................................................. 25
Deviations and Advisories ........................................... 29
Troubleshooting .......................................................... 30
Parts .......................................................................... 31
Accessories ................................................................. 33
Mounting Dimensions .................................................. 34
Appendix A - Modbus Variable Map .............................. 35
Appendix B - Advanced Web Interface ......................... 37
Technical Data ........................................................... 41
California Proposition 65 ............................................. 41
Graco Standard Warranty .............................................. 42
Informer Models and Kits

All Display Control Modules (DCM) are base model number 24L096 (Ref. 1). Models 24L096 and 24N671 (DCM with bracket) are not available for separate sale. See approval information in Manual 332013 and on this page. The small label (Ref. 2) on the back of the Informer module shows the Informer Kit number. Available kits are described in the tables that follow.

![Diagram of Informer module]

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Series</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>24L096</td>
<td>A</td>
<td>Display Control Module (DCM), with no software loaded. See Manual 332013.</td>
</tr>
<tr>
<td>24N671</td>
<td>A</td>
<td>Display Control Module (DCM) with bracket, with no software loaded. See Manual 332013.</td>
</tr>
</tbody>
</table>

**Intrinsically Safe Apparatus**
- Part of Intrinsically Safe System.
- For use in Class I, Division 1, Group D T3 Hazardous Locations
- See Manual 332013, Appendix A, Control Drawing 16M169 for entity parameters.
Informer Models and Kits

Informer systems are not approved for use in hazardous locations unless all accessories and all wiring meet local, state, and national codes.

### Kits for Hazardous Locations

<table>
<thead>
<tr>
<th>Kit No.</th>
<th>Series</th>
<th>Informer Module with Bracket (Manual 332013)*</th>
<th>No Power</th>
<th>AC Power with Barrier**</th>
<th>G3000 Meter (Manual 308778)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>24L073</td>
<td>A</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24L074</td>
<td>A</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td>✔</td>
</tr>
<tr>
<td>24L077</td>
<td>A</td>
<td>✔</td>
<td></td>
<td>❌</td>
<td>❌</td>
</tr>
<tr>
<td>24L078</td>
<td>A</td>
<td>✔</td>
<td></td>
<td>❌</td>
<td>❌</td>
</tr>
</tbody>
</table>

* See component manuals for additional approval information.
** Must not be installed in Hazardous Location.

### Kits for Non-Hazardous Locations

<table>
<thead>
<tr>
<th>Kit No.</th>
<th>Series</th>
<th>Informer Module with Bracket</th>
<th>AC Power</th>
<th>G3000 Meter</th>
</tr>
</thead>
<tbody>
<tr>
<td>24L075</td>
<td>A</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>24L076</td>
<td>A</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>

9902471
Conforms to/Certified to UL/CSA Standard
61010–1
# Warnings

The following warnings are for the setup, use, grounding, maintenance and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbol refers 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.

## WARNING

<table>
<thead>
<tr>
<th>FIRE AND EXPLOSION HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable fumes, such as solvent and paint fumes, in <strong>work area</strong> can ignite or explode. To help prevent fire and explosion:</td>
</tr>
<tr>
<td>• Use equipment only in well ventilated area.</td>
</tr>
<tr>
<td>• Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).</td>
</tr>
<tr>
<td>• Keep work area free of debris, including solvent, rags and gasoline.</td>
</tr>
<tr>
<td>• Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.</td>
</tr>
<tr>
<td>• Ground all equipment in the work area. See <strong>Grounding</strong> instructions.</td>
</tr>
<tr>
<td>• Use only grounded hoses.</td>
</tr>
<tr>
<td>• Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are antistatic or conductive.</td>
</tr>
<tr>
<td>• <strong>Stop operation immediately</strong> if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem.</td>
</tr>
<tr>
<td>• Keep a working fire extinguisher in the work area.</td>
</tr>
</tbody>
</table>

Static charge may build up on plastic parts during cleaning and could discharge and ignite flammable vapors. To help prevent fire and explosion:

| • Clean plastic parts only in a well ventilated area. |
| • Do not clean with a dry cloth. |

## ELECTRIC SHOCK HAZARD

This equipment must be grounded. Improper grounding, setup, or usage of the system can cause electric shock.

| • Turn off and disconnect power at main switch before disconnecting any cables and before servicing or installing equipment. |
| • Connect only to grounded power source or grounded electrical outlets. |
| • Use only 3–wire extension cords. |
| • Ensure ground prongs are intact on power and extension cords. |
| • Do not expose to rain. Store indoors. |
| • All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations. |
### INTRINSIC SAFETY

Intrinsically safe equipment that is installed improperly or connected to non-intrinsically safe equipment will create a hazardous condition and can cause fire, explosion, or electric shock. Follow local regulations and the following safety requirements.

- Be sure your installation complies with national, state, and local codes for the installation of electrical apparatus in a Class I, Group D, Division 1 Hazardous Location, including all of the local safety fire codes, NFPA 33, NEC 500 and 516, and OSHA 1910.107.
- Equipment that comes in contact with intrinsically safe terminals must meet the entity parameter requirements specified in Control Drawing 16M169. See Appendix A in Manual 332013. This includes safety barriers, DC voltage meters, ohmmeters, cables, and connections. Remove the unit from the hazardous area when servicing.
- If a printer, computer, or other electrical component is connected, it must be used in conjunction with a safety barrier.
- Without the safety barrier, the equipment is no longer intrinsically safe and must not be operated in hazardous locations, as defined in article 500 of the National Electrical Code (USA) or your local electrical code.
- Do not install equipment approved only for non-hazardous location in a hazardous area. See the ID label for the intrinsic safety rating for your model.
- Ground the power supply. A voltage limiting safety barrier must be properly grounded to be effective. For proper grounding, use a 12 gauge minimum ground wire. The barrier’s ground must be within 1 ohm of true earth ground.
- Do not operate the power supply module with the cover removed.
- Do not substitute system components as this may impair intrinsic safety.

### SKIN INJECTION HAZARD

High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**

- Engage trigger lock when not spraying.
- Do not point gun at anyone or at any part of the body.
- Do not put your hand over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow the **Pressure Relief Procedure** when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses and couplings daily. Replace worn or damaged parts immediately.
## Warnings

### EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer’s warnings. For complete information about your material, request MSDS from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure.
- Turn off all equipment and follow the Pressure Relief Procedure when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer’s replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.

### TOXIC FLUID OR FUMES

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

- Read MSDSs to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.

### PERSONAL PROTECTIVE EQUIPMENT

Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

- Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.
Installation

Overview

The purpose of the Informer Display Control Module is to collect and display fluid data. The Informer connects the output signal from a meter to a display module that performs the following functions:

• Shows real-time fluid flow rate.
• Displays a resettable batch totalizer.
• Monitors and reports overall fluid use.
• Alarms if the flow rate is too fast or too slow for the user-set targets.
• Alarms when the maintenance total is reached for the user-set target.
• Displays a log of the last 20 alarms.

The Informer is available in configurations for Hazardous Location or Non-Hazardous Location installation. The power supply for Hazardous Locations comes with one barrier, to power one Informer. Up to three additional barriers can be added to the power supply to power three additional Informers. See Accessories, page 33, to order additional barriers and Informer Modules.
Non-Hazardous Locations

NOTE: Non-IS Informer modules are shipped with a 120 VAC power cord (E). Users in areas with another standard voltage must provide a power supply cord with an IEC 320–C13 female connector. See Technical Data, page 41, for power requirements.

- The nonintrinsically safe terminals (power rail) must not be connected to any device which uses or generates more than 250 vrms or d.c. unless it has been determined that the voltage has been adequately isolated.

Key:
A  Flow Meter, 1/4 npt female inlet/outlet
B  Informer Module
C  Power Supply and Cable (6 ft., 2 m), to terminal 3. See Cable Connections, page 12.
D  Meter Cable (50 ft., 15 m), to terminal 4. See Cable Connections, page 12.
E  Power Cord (10 ft., 3 m). See NOTE above.
M  Ground wire and clamp. PN 244524 is included with kits to ground the Informer Module. PN 238909 is sold separately to ground the meter.
**Installation**

**Hazardous Locations**

Do not substitute or modify system components as this may impair intrinsic safety. For installation, maintenance, or operation instructions, read instruction manuals. Do not install equipment approved only for non-hazardous location in a hazardous location. See the identification label for the intrinsic safety rating for your model.

Intrinsically safe equipment should not be used with a power supply that has no barrier. Do not move units from a non-IS setup to an IS setup. IS equipment that has been used with a non-IS power supply must not be returned to a hazardous location. Always use an intrinsically safe power supply with IS equipment.

- Installation should be in accordance with ANSI/ISA RP12.06.01, “Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations,” and the National Electrical Code® (ANSI/NFPA 70).

- Installation in Canada should be in accordance with the Canadian Electrical Code, CSA C22.1, Part 1, Appendix F.

- For ATEX, install per EN 60079-14 and applicable local and national codes.

- Multiple earthing of components is allowed only if a high integrity equipotential system is realized between the points of bonding.

- Do not remove any cover until power has been removed.

- Install according to Control Drawing Number 16M169. See Appendix A in Manual 332013.
**KEY:**

A  Flow Meter, 1/4 npt female inlet/outlet.
B  Informer Module
C  Power Supply with Barrier
D  Meter Cable (50 ft., 15 m), to terminal 4. See Cable Connections, page 12.
E  Power Cord (not supplied)
F  Power Cable (50 ft., 15 m), to terminal 3. See Cable Connections, page 12.
M  Ground wire and clamp. PN 244524 is included with kits to ground the Informer Module. PN 238909 is sold separately to ground the meter or power supply.
Installation

Grounding

The equipment must be grounded to reduce the risk of static sparking and electric shock. Electric or static sparking can cause fumes to ignite or explode. Improper grounding can cause electric shock. Grounding provides an escape wire for the electric current.

NOTE: The Informer does not provide 500 VAC isolation through the coupling nuts on the enclosure. The associated apparatus and the field apparatus cable shields must not be connected to the Informer coupling nuts.

1. Power Supply 16M167: Connect the ground wire from the power supply to a true earth ground.

2. Informer Module: Connect a ground wire and clamp to the screw on the top of the bracket. Connect the other end to ground. In an IS system, the Informer also is grounded by connection to the grounded power supply.

3. Flow Meter: Follow the instructions in manual 308778 (G3000) or manual 313599 (Coriolis) to ground the flow meter and check its electrical grounding continuity.

4. Fluid Supply: Ground the fluid supply unit.

Cable Connections

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fiber Optic Receiver</td>
<td>Red Lead from TX on Fiber Optic Converter (PN 16K465) or from Port 6 on another Informer (or ProControl 1KE)</td>
</tr>
<tr>
<td>2</td>
<td>Fiber Optic Transmitter</td>
<td>Black Lead to RX on Fiber Optic Converter (PN 16K465) or to Port 5 on another Informer (or ProControl 1KE)</td>
</tr>
<tr>
<td>3</td>
<td>Power</td>
<td>From Power Supply</td>
</tr>
<tr>
<td>4</td>
<td>Digital Input/Output</td>
<td>To/From Meter and to Light Tower (accessory)</td>
</tr>
<tr>
<td>5</td>
<td>Fiber Optic Receiver</td>
<td>Black Lead from Port 2 on another Informer (or ProControl 1KE)</td>
</tr>
<tr>
<td>6</td>
<td>Fiber Optic Transmitter</td>
<td>Red Lead to Port 1 on another Informer (or ProControl 1KE).</td>
</tr>
</tbody>
</table>
Electrical Connections

Install per Graco Control Drawing 16M169, in Manual 332013. See also Figure 1.

1. Connect main power supply cord (E, not supplied) through strain relief to terminals L and N on the power supply unit. **Note:** Use either strain relief (5) or (6), depending on the size of the cord.

2. Connect power cord ground wire to ground terminal block.

3. Connect IS power cable (F) per the following table.

<table>
<thead>
<tr>
<th>Power Cable Leads</th>
<th>Barrier Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown (power)</td>
<td>Connector 1</td>
</tr>
<tr>
<td>Blue (common)</td>
<td>Connector 2</td>
</tr>
<tr>
<td>Glossy Black (ground) and Black (drain) connect to ground block.</td>
<td></td>
</tr>
</tbody>
</table>

Figure 1

**KEY**

- **E**  Inbound AC Power Cord
- **F**  Power Cable to Informer
- **W**  Ground Wires
- **X**  Barrier
- **Y**  Ground Block
- **5**  Strain Relief Fitting
- **6**  Strain Relief Fitting
Installation

Typical Installation

Non-Hazardous Location

Hazardous Location

Diagram showing the typical installation of equipment with labels for components A1, A2, B1, B2, C, D, E, F, G, H, J, K, and L.
### Communication Options

Graco Accessories are available to enable communication with a Programmable Logic Controller (PLC) or Personal Computer (PC).

- The Fiber Optic Converter (Graco Kit 24N978) enables Modbus RTU communication with a user-supplied PLC using a serial cable.
- A Modbus Gateway (Graco Kit 24N977) can be connected to (or installed in) an Advanced Web Interface (Graco Kit 15V337) to enable communication with a PC using an ethernet cable. See Appendix B - Advanced Web Interface, page 37, for instructions.

These communication kits come with installation and setup directions necessary for their use with the Informer.
Operation

Pressure Relief Procedure

Follow the Pressure Relief Procedure whenever you see this symbol.

This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashing fluid and moving parts, follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing the equipment.

1. Turn off the fluid supply to the meter.
2. Shut off all power to the fluid system.
3. Follow the Pressure Relief Procedure for your fluid system dispensing device.

Flow Meter Operation

To reduce the risk of component rupture, which could cause injury from splashing fluid, do not exceed the maximum working pressure of your meter or any component or accessory in your system.

For information on the G3000 Graco flow meter, see manual 308778. For information on the Coriolis flow meter, see manual 313599. Calibrate the meter as instructed before using the meter for production.

NOTICE

The flow meter gears and bearings can be damaged if they rotate at too high a speed. To avoid high speed rotation, open the fluid valve gradually. Do not over-speed the gear with air or solvent. To prolong meter life, do not use the meter above its maximum flow rate.
Meter Calibration

**NOTE:** See **Setup Screen 4** for further screen information, if needed.

**When to Calibrate**
- The first time the system is operated.
- Whenever new materials are used in the system, especially if the materials have viscosities that differ significantly.
- As part of regular maintenance to retain meter accuracy.
- Whenever a flow meter is serviced or replaced.

**Read Before Calibration**
- Meter k-factor on **Setup Screen 4** is updated automatically after the calibration procedure is completed. You also may manually edit the k-factor if desired.

- All values on this screen are in cc or cc/pulse, regardless of the units set in the other Setup screens.
- Before calibrating the meter, be sure the system is primed with material.
- Disable alarms before calibration.

**Calibration Steps**

1. Press \[ \] to enter Setup Mode.
2. Press \[ \] to move to Setup Screen 4.
3. Press \[ \] to enter the screen.
4. Press \[ \] to begin the calibration.
5. Dispense about 300–500 cc of material into a graduated cylinder. The amount the system measures will display in the measured volume field.

6. Press 🔄 to end the calibration.

7. Press 🔄 to get to the dispensed volume field, then press ← to enter the field. Enter the amount of material in the cylinder.

8. After the volume is entered, the system calculates the new k-factor and shows it on Setup Screen 4.

   **NOTE:** To clear the counter and begin the calibration again, press 🔄, move briefly to another screen, then return to Setup Screen 4 and start over. If you press 🔄 without leaving the screen, the counter will continue from where it is, without clearing.

9. Press 🔄 to exit the screen.

10. Press 🔄 to exit Setup Mode.

### Setting Modbus Address

See **Setup Screen 5**. By default, the Modbus is set to Off 🟥. If you need the Modbus, set the Modbus mode to SLAVE 🔄. The address value is between 1 and 247. The modbus address corresponds to the address of the Informer. See Appendix A for further information.

## Update Software

Software updates are installed using a software token (PN 16P468), which is sent automatically when a new version of the software is released. Manual 3A1244 will accompany any necessary software updates. Follow all instructions and warnings in Manual 3A1244 to update your Informer software.
Replace Battery

Replace the battery only if the clock stops functioning after disconnecting power or a power failure.

Sparking can occur when changing the battery. Replace the battery only in a non-hazardous location, away from flammable fluids or fumes.

NOTICE

To avoid damage to the circuit board, wear Part No. 112190 grounding strap, and ground appropriately.

1. Disconnect power.
2. Remove the Informer from the bracket.
3. Attach the grounding strap.
4. Remove 4 screws, and then remove the access cover.
5. Use a flathead screwdriver to pry out the old battery.

NOTE: Dispose of battery properly in an approved container and according to applicable local guidelines.

6. Replace with new battery. Ensure battery fits under connector tabs before snapping other end in place.

NOTE: Use only Panasonic CR2032 batteries for replacement.

7. Reassemble access cover and screws.
8. Snap the Informer back into the bracket.
Display Module

Display Information

The Display Module provides the interface for users to enter selections and view information related to setup and operation.

The screen backlight is factory set to remain on, even without screen activity. See Setup Screen 3 to set the backlight timer to your preference. Press any key to restore.

Keys are used to input numerical data, enter setup screens, navigate within a screen, scroll through screens, and select setup values.

NOTICE

To prevent damage to the softkey buttons, do not press the buttons with sharp objects such as pens, plastic cards, or fingernails.

Operation Modes

The Informer has two operation modes: Run Mode and Setup Mode. For detailed information see Run Screens, page 23, and Setup Screens, page 25.

Press to toggle between these two modes.

Screen Navigation and Editing

Refer to this section if you have questions about screen navigation or about how to enter information and make selections.

All Screens

1. Use to move between screens.
2. Press to enter a screen. The first data field on the screen will highlight.

3. Use to highlight the data you wish to change.
4. Press to edit.

Drop Down Field

1. Use to highlight the correct choice from the dropdown menu.
2. Press to select.
3. Press to cancel.

Number Field

1. The first digit will be highlighted. Use to change the number.
2. Press to move to the next digit.
3. When all digits are correct, press again to accept.
4. Press to cancel.

Check Box Field

A check box field is used to enable or disable features in the software.

1. Press to toggle between and an empty box.
2. The feature is enabled if a is in the box.

Reset Field

The reset field is used for totalizers. Press to reset the field to zero.

When all data is correct, press to exit the screen.

Then use to move to a new screen, or to move between Setup Mode and Run Mode.
Icons

As you move through the Informer screens, you will notice that most information is communicated using icons rather than words to simplify global communication. The detailed screen descriptions in Run Screens, page 23, and Setup Screens, page 25, explain what each icon represents. Icon reference tables also are provided, on this page and the next. Softkeys are membrane buttons whose function correlates with the screen content to the immediate left of the button.

<table>
<thead>
<tr>
<th>Membrane Keys</th>
<th>Softkeys</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Lock Icon" /></td>
<td>Enter Screen. Highlight data that can be edited. Also changes the function of the Up/Down arrows so they move between data fields on the screen, rather than between screens.</td>
</tr>
<tr>
<td>Error Reset: Use to clear alarm after cause has been fixed. Also used to cancel data entered and return to original data.</td>
<td>Exit Screen. Exit data editing.</td>
</tr>
<tr>
<td>Up/Down Arrows: Use to move between screens or fields on a screen, or to increment or decrement the digits in a settable field.</td>
<td>Enter. Press to activate a field for editing or to accept the highlighted selection on a dropdown menu.</td>
</tr>
<tr>
<td><img src="image" alt="Unlock Icon" /></td>
<td>Right. Move to the right when editing number fields. Press again to accept the entry when all digits are correct.</td>
</tr>
<tr>
<td>Softkeys: Use varies by screen. See columns at right.</td>
<td>Reset. Reset totalizer to zero.</td>
</tr>
<tr>
<td><img src="image" alt="Softkey Icon" /></td>
<td>Start</td>
</tr>
<tr>
<td><img src="image" alt="Softkey Icon" /></td>
<td>Stop</td>
</tr>
</tbody>
</table>
### Screen Icons

<table>
<thead>
<tr>
<th><img src="image" alt="Screen number. The arrows indicate more screens are available to view." /></th>
<th><img src="image" alt="Screen number. The arrows indicate more screens are available to view." /></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Batch Totalizer" /></td>
<td><img src="image" alt="Batch Totalizer" /></td>
</tr>
<tr>
<td><img src="image" alt="Maintenance Totalizer" /></td>
<td><img src="image" alt="Maintenance Totalizer" /></td>
</tr>
<tr>
<td><img src="image" alt="Grand Totalizer" /></td>
<td><img src="image" alt="Grand Totalizer" /></td>
</tr>
<tr>
<td><img src="image" alt="Set Maintenance Target" /></td>
<td><img src="image" alt="Set Maintenance Target" /></td>
</tr>
<tr>
<td><img src="image" alt="Set Grand Total Units" /></td>
<td><img src="image" alt="Set Grand Total Units" /></td>
</tr>
<tr>
<td><img src="image" alt="Set Modbus Address" /></td>
<td><img src="image" alt="Set Modbus Address" /></td>
</tr>
</tbody>
</table>

- **Batch Totalizer**
- **Maintenance Totalizer**
- **Grand Totalizer**
- **Set Maintenance Target**
- **Set Grand Total Units**
- **Set Modbus Address**

### Screen Icons

<table>
<thead>
<tr>
<th><img src="image" alt="Lock icon indicates the unit is in Setup mode." /></th>
<th><img src="image" alt="Lock icon indicates the unit is in Setup mode." /></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Select Correct Date" /></td>
<td><img src="image" alt="Select Correct Date" /></td>
</tr>
<tr>
<td><img src="image" alt="Enter User-Set Password" /></td>
<td><img src="image" alt="Enter User-Set Password" /></td>
</tr>
<tr>
<td><img src="image" alt="Set Batch/Maintenance Units" /></td>
<td><img src="image" alt="Set Batch/Maintenance Units" /></td>
</tr>
<tr>
<td><img src="image" alt="Set Modbus Mode" /></td>
<td><img src="image" alt="Set Modbus Mode" /></td>
</tr>
</tbody>
</table>

- **Select the Correct Date**
- **Enter User-Set Password**
- **Set Batch/Maintenance Units**
- **Set Modbus Mode**

### Screen Icons

<table>
<thead>
<tr>
<th><img src="image" alt="Set Serial Port Parity" /></th>
<th><img src="image" alt="Set Serial Port Parity" /></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Set Flow Rate Maximum and Minimum" /></td>
<td><img src="image" alt="Set Flow Rate Maximum and Minimum" /></td>
</tr>
<tr>
<td><img src="image" alt="Set Flow Rate Units" /></td>
<td><img src="image" alt="Set Flow Rate Units" /></td>
</tr>
<tr>
<td><img src="image" alt="K-Factor" /></td>
<td><img src="image" alt="K-Factor" /></td>
</tr>
<tr>
<td><img src="image" alt="Volume measured by the meter" /></td>
<td><img src="image" alt="Volume measured by the meter" /></td>
</tr>
<tr>
<td><img src="image" alt="Actual volume dispensed" /></td>
<td><img src="image" alt="Actual volume dispensed" /></td>
</tr>
<tr>
<td><img src="image" alt="Set the Correct Time" /></td>
<td><img src="image" alt="Set the Correct Time" /></td>
</tr>
</tbody>
</table>

- **Set Serial Port Parity**
- **Set Flow Rate Maximum and Minimum**
- **Set Flow Rate Units**
- **K-Factor**
- **Volume measured by the meter**
- **Actual volume dispensed**
- **Set the Correct Time**

### Screen Icons

<table>
<thead>
<tr>
<th><img src="image" alt="Modbus Functionality is Off" /></th>
<th><img src="image" alt="Modbus Functionality is Off" /></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Informer is Modbus Slave" /></td>
<td><img src="image" alt="Informer is Modbus Slave" /></td>
</tr>
<tr>
<td><img src="image" alt="Maintenance Totalizer Alarm Enable" /></td>
<td><img src="image" alt="Maintenance Totalizer Alarm Enable" /></td>
</tr>
<tr>
<td><img src="image" alt="Flow Rate Alarm Enable" /></td>
<td><img src="image" alt="Flow Rate Alarm Enable" /></td>
</tr>
<tr>
<td><img src="image" alt="Alarm Auto Clear Enable (for accessories)" /></td>
<td><img src="image" alt="Alarm Auto Clear Enable (for accessories)" /></td>
</tr>
<tr>
<td><img src="image" alt="Select Date Format" /></td>
<td><img src="image" alt="Select Date Format" /></td>
</tr>
<tr>
<td><img src="image" alt="Flow Rate High Alarm" /></td>
<td><img src="image" alt="Flow Rate High Alarm" /></td>
</tr>
<tr>
<td><img src="image" alt="Flow Rate Low Alarm" /></td>
<td><img src="image" alt="Flow Rate Low Alarm" /></td>
</tr>
</tbody>
</table>

- **Modbus Functionality is Off**
- **Informer is Modbus Slave**
- **Maintenance Totalizer Alarm Enable**
- **Flow Rate Alarm Enable**
- **Alarm Auto Clear Enable (for accessories)**
- **Select Date Format**
- **Flow Rate High Alarm**
- **Flow Rate Low Alarm**
Run Screens

When in Run Mode, the Informer displays the current flow rate and batch total on Screen 1. Screen 2 displays the grand total for the flow meter to which it is connected. Screens 3–6 display a log of the last 20 alarms.

Run Screen 1

Use this screen to view the current batch total and flow rate, or to reset the batch totalizer to 0. Units are set on Setup Screen 1 and Setup Screen 2.

![Figure 2 Run Screen 1]

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Checkmark]</td>
<td>Enter the screen.</td>
</tr>
<tr>
<td>![Batch Totalizer]</td>
<td>Batch Totalizer - Displays the amount of fluid measured since the last time the field was reset to zero.</td>
</tr>
<tr>
<td>![Flow Rate]</td>
<td>Flow Rate - Displays the current flow rate.</td>
</tr>
<tr>
<td>![Reset Batch Totalizer]</td>
<td>Reset Batch Totalizer - Resets the batch totalizer to zero.</td>
</tr>
<tr>
<td>![Move Between Screens]</td>
<td>Move between Run Screens.</td>
</tr>
</tbody>
</table>

Run Screen 2

Use this screen to view the grand total flow for the system. The grand total cannot be reset.

![Figure 3 Run Screen 2]

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Grand Totalizer]</td>
<td>Grand Totalizer - Displays the grand total flow for the system. This value cannot be reset.</td>
</tr>
<tr>
<td>![Move Between Screens]</td>
<td>Move between Run Screens.</td>
</tr>
</tbody>
</table>
Run Screens 3 — 6

Use Screens 3 — 6 to view the log of recent alarms.

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="calendar.png" alt="Calendar" /></td>
<td>Date on which the Deviation or Advisory Alarm occurred.</td>
</tr>
<tr>
<td><img src="clock.png" alt="Clock" /></td>
<td>Time at which the Deviation or Advisory Alarm occurred.</td>
</tr>
<tr>
<td><img src="person.png" alt="Person" /></td>
<td>General symbol indicating a deviation or advisory alarm. MF is the maintenance alarm. F2 is the flow rate low alarm. F3 is the flow rate high alarm. See Deviations and Advisories, page 29 for more information.</td>
</tr>
<tr>
<td><img src="arrow_up_down.png" alt="Arrow Up/Down" /></td>
<td>Move between Run Screens.</td>
</tr>
</tbody>
</table>

Password Screen

If a password has been set, the Password Screen displays when Password Key is pressed from any Run screen. Enter password to enable entry to the Setup screens. Set the password to 0000 to disable password protection. See Setup Screen 7 to set or change the password.

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="password.png" alt="Password" /></td>
<td>Press to enter a password.</td>
</tr>
<tr>
<td><img src="arrow_right.png" alt="Arrow Right" /></td>
<td>Move to the right when editing number fields. Press again to accept the entry when all digits are correct.</td>
</tr>
<tr>
<td><img src="lock.png" alt="Lock" /></td>
<td>Enter the user-set password for the system.</td>
</tr>
<tr>
<td><img src="increment_decrement.png" alt="Increment/Decrement" /></td>
<td>Increment/decrement the digits when editing number fields.</td>
</tr>
</tbody>
</table>
Setup Screens

The Setup Mode is used to set up a password (if desired) and to set parameters for monitoring fluid flow with the Informer. See Screen Navigation and Editing, page 20, for information on how to make selections and enter data.

Setup Screen 1

Use this screen to view and reset the maintenance totalizer, set the maintenance target value, and set the batch and grand totalizer units shown on the Run Screens. Maintenance totalizer units, shown on this Setup Screen, are always cc.

![Setup Screen 1](image)

Figure 6 Setup Screen 1

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Key Icon]</td>
<td>Enter the screen to set or change preferences.</td>
</tr>
<tr>
<td>![Key Icon]</td>
<td>Press to activate a field for editing or to accept the highlighted selection on a dropdown menu.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>→ Move to the right when editing number fields. Press again to accept the entry when all digits are correct.</td>
<td></td>
</tr>
<tr>
<td>![Reset Icon]</td>
<td>Reset Maintenance Totalizer - resets the maintenance totalizer to zero.</td>
</tr>
<tr>
<td>![Maintenance Icon]</td>
<td>Maintenance Totalizer - Displays the current maintenance total in cubic centimeters.</td>
</tr>
<tr>
<td>![Maintenance Icon]</td>
<td>Set your desired maintenance total target value in this field in cubic centimeters. See Setup Screen 3 to set or disable the maintenance alarm.</td>
</tr>
<tr>
<td>![Batch Icon]</td>
<td>Batch Totalizer Units - Select from the following drop down options.</td>
</tr>
<tr>
<td>![Batch Icon]</td>
<td>![Cubic Centimeters Icon]</td>
</tr>
<tr>
<td>![Batch Icon]</td>
<td>![Liters Icon]</td>
</tr>
<tr>
<td>![Batch Icon]</td>
<td>![Gallons Icon]</td>
</tr>
<tr>
<td>![Grand Totalizer Icon]</td>
<td>Grand Totalizer Units - Select from the following drop down options.</td>
</tr>
<tr>
<td>![Grand Totalizer Icon]</td>
<td>![Cubic Centimeters Icon]</td>
</tr>
<tr>
<td>![Grand Totalizer Icon]</td>
<td>![Liters Icon]</td>
</tr>
<tr>
<td>![Grand Totalizer Icon]</td>
<td>![Gallons Icon]</td>
</tr>
<tr>
<td>![Exit Icon]</td>
<td>Exit data editing.</td>
</tr>
<tr>
<td>![Arrow Icon]</td>
<td>Move between Setup Screens, fields on a screen, or to increment/decrement the digits when editing number fields.</td>
</tr>
</tbody>
</table>
Setup Screens

Setup Screen 2

Use this screen to set your flow rate maximum and minimum values and to select units for flow rate.

Figure 7  Setup Screen 2

<table>
<thead>
<tr>
<th>Key</th>
<th>Enter the screen to set or change preferences.</th>
</tr>
</thead>
<tbody>
<tr>
<td>➕</td>
<td>Press to activate a field for editing or to accept the highlighted selection on a dropdown menu.</td>
</tr>
<tr>
<td>➞</td>
<td>Move to the right when editing number fields. Press again to accept the entry when all digits are correct.</td>
</tr>
<tr>
<td>⚙️ 000000</td>
<td>Set your desired flow rate maximum (first data field) and minimum (second data field) threshold values. See Setup Screen 3 to set or disable the flow rate alarms.</td>
</tr>
<tr>
<td>⚙️ cc/min</td>
<td>Flow Rate Units - Select from the following drop options.</td>
</tr>
<tr>
<td>⚙️ Liters per minute</td>
<td></td>
</tr>
<tr>
<td>⚙️ gal/min</td>
<td>Gallons per minute</td>
</tr>
<tr>
<td>✒️</td>
<td>Exit data editing.</td>
</tr>
<tr>
<td>➤ ➤</td>
<td>Move between Setup Screens, fields on a screen, or to increment/decrement the digits when editing number fields.</td>
</tr>
</tbody>
</table>

Setup Screen 3

Use this screen to set your alarm preferences. Select ✅ to enable the alarm, or leave the box empty to disable the alarm.

Figure 8  Setup Screen 3

<table>
<thead>
<tr>
<th>Key</th>
<th>Enter the screen to set or change preferences.</th>
</tr>
</thead>
<tbody>
<tr>
<td>➕</td>
<td>Press to toggle between ✅ and blank.</td>
</tr>
<tr>
<td>✅</td>
<td>Maintenance Totalizer Alarm Enable</td>
</tr>
<tr>
<td>⚙️</td>
<td>Flow Rate Alarm Enable</td>
</tr>
<tr>
<td>✏️</td>
<td>Alarm Auto Clear Enable. If enabled, when the flow rate returns to within the flow limit set points, the flow rate alarm will clear on any attached accessories, such as a the light tower. The alarm will still be displayed on the Informer screen.</td>
</tr>
<tr>
<td>⬅️</td>
<td>Set display backlight timer. Enter &quot;00&quot; to set the backlight to remain on.</td>
</tr>
<tr>
<td>✒️</td>
<td>Exit data editing.</td>
</tr>
<tr>
<td>➤ ➤</td>
<td>Move between Setup Screens, fields on a screen, or to increment/decrement the digits when editing number fields.</td>
</tr>
</tbody>
</table>
**Setup Screen 4**

Use this screen to calibrate your meter and to view or set your meter k-factor. See *Meter Calibration, page 17*, for procedure.

![Setup Screen 4](image1)

**Figure 9 Setup Screen 4**

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Checkmark]</td>
<td>Enter the screen to set or change preferences.</td>
</tr>
<tr>
<td>![Left Arrow]</td>
<td>Press to activate a field for editing or to accept the highlighted selection on a dropdown menu.</td>
</tr>
<tr>
<td>![Right Arrow]</td>
<td>Move to the right when editing number fields. Press again to accept the entry when all digits are correct.</td>
</tr>
<tr>
<td>![Play/Pause]</td>
<td>Start the calibration.</td>
</tr>
<tr>
<td>![Stop]</td>
<td>Stop the calibration.</td>
</tr>
<tr>
<td>![Gear]</td>
<td>Displays the volume measured by the system for the calibration test.</td>
</tr>
<tr>
<td>![Gear]</td>
<td>Enter the actual volume in the cylinder from the calibration test.</td>
</tr>
<tr>
<td>![Gear]</td>
<td>Displays the meter k-factor. User can set the k-factor manually. The system automatically updates to the correct k-factor when the meter is calibrated.</td>
</tr>
<tr>
<td>![Exit]</td>
<td>Exit data editing.</td>
</tr>
<tr>
<td>![Arrow Up/Down]</td>
<td>Move between Setup Screens, fields on a screen, or to increment/decrement the digits when editing number fields.</td>
</tr>
</tbody>
</table>

**Setup Screen 5**

Use this screen to set your modbus preferences for ports 1 and 2. Note that ports 5 and 6 are used as modbus master devices for connecting to other Informer (or ProCrontol 1KE) modules.

![Setup Screen 5](image2)

**Figure 10 Setup Screen 5**

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Modbus]</td>
<td>Modbus mode. Select off or Slave from the dropdown options.</td>
</tr>
<tr>
<td>![Off]</td>
<td>Turn off Modbus functionality if not used.</td>
</tr>
<tr>
<td>![Informer]</td>
<td>Use Informer as Modbus slave device.</td>
</tr>
<tr>
<td>![Address]</td>
<td>Enter or change the Modbus address. Value is between 1 and 247.</td>
</tr>
<tr>
<td>![Baudrate]</td>
<td>Select serial port baudrate from the dropdown options: 9600, 19200, 38400, 57600, or 115200.</td>
</tr>
<tr>
<td>![Parity]</td>
<td>Select serial port parity from the dropdown options: NONE, ODD, or EVEN.</td>
</tr>
<tr>
<td>![Exit]</td>
<td>Exit data editing.</td>
</tr>
<tr>
<td>![Arrow Up/Down]</td>
<td>Move between Setup Screens, fields on a screen, or to increment/decrement the digits when editing number fields.</td>
</tr>
</tbody>
</table>
**Setup Screens**

**Setup Screen 6**

Use this screen to set your date format, date, and time.

![Setup Screen 6](image)

**Figure 11 Setup Screen 6**

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✍</td>
<td>Enter the screen to set or change preferences.</td>
</tr>
<tr>
<td>←</td>
<td>Press to activate a field for editing or to accept the highlighted selection on a dropdown menu.</td>
</tr>
<tr>
<td>→</td>
<td>Move to the right when editing number fields. Press again to accept the entry when all digits are correct.</td>
</tr>
<tr>
<td>⌚</td>
<td>Select your preferred date format from the dropdown menu.</td>
</tr>
<tr>
<td>⌚</td>
<td>Set the current date.</td>
</tr>
<tr>
<td>⌚</td>
<td>Set the current time.</td>
</tr>
<tr>
<td>✂</td>
<td>Exit data editing.</td>
</tr>
<tr>
<td>↑/↓</td>
<td>Move between Setup Screens, fields on a screen, or to increment/decrement the digits when editing number fields.</td>
</tr>
</tbody>
</table>

**Setup Screen 7**

Use this screen to enter a password that will be required to access the Setup screens. This screen also displays the software version.

![Setup Screen 7](image)

**Figure 12 Setup Screen 7**

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✍</td>
<td>Enter the screen to set the password.</td>
</tr>
<tr>
<td>←</td>
<td>Press to activate the field for editing.</td>
</tr>
<tr>
<td>→</td>
<td>Move to the right when editing number fields. Press again to accept the entry when all digits are correct.</td>
</tr>
<tr>
<td>☛</td>
<td>Enter desired password. Enter &quot;0000&quot; to disable the password.</td>
</tr>
<tr>
<td>✂</td>
<td>Exit data editing.</td>
</tr>
<tr>
<td>↑/↓</td>
<td>Move between Setup Screens, fields on a screen, or to increment/decrement the digits when editing number fields.</td>
</tr>
</tbody>
</table>
Deviations and Advisories

There are two types of errors that can occur. Errors are indicated on the display.

Deviations, indicated by , require attention, but not immediately.

Advisories, indicated by , do not require attention.

If a deviation or advisory occurs, the system continues running. The error code and the or the flash on the screen. If multiple alarms occur, F2 and F3 have higher priority than MF. They will appear first and must be cleared first.

<table>
<thead>
<tr>
<th>Icon and Code</th>
<th>Description</th>
<th>How to Correct and Clear</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2</td>
<td>Deviation alarm. If enabled, the flow rate low alarm displays when the flow rate is lower than the user set minimum.</td>
<td>Adjust flow rate, reset minimum flow target (see Setup Screen 2), or disable alarm (see Setup Screen 3). Press to clear screen. The alarm will not clear if the flow rate is still lower than the user set target.</td>
</tr>
<tr>
<td>F3</td>
<td>Deviation alarm. If enabled, the flow rate high alarm displays when the flow rate is higher than the user set maximum.</td>
<td>Adjust flow rate, reset maximum flow target (see Setup Screen 2), or disable alarm (see Setup Screen 3). Press to clear alarm. The alarm will not clear if the flow rate is still higher than the user set target.</td>
</tr>
<tr>
<td>MF</td>
<td>Advisory alarm. If enabled, the maintenance totalizer alarm displays when the user-set maintenance target value is reached.</td>
<td>Reset Maintenance Totalizer to zero (see Setup Screen 1). Perform maintenance. Press to clear alarm. Alarm will not clear until Maintenance Totalizer has been reset to zero and no deviation alarms are occurring.</td>
</tr>
</tbody>
</table>

Alarm Log Logic: If Alarm Auto Clear is enabled, the system will not log the same alarm twice. For example, if the system fluctuates between low flow (F2) and acceptable flow, the system will log this error only once, to keep the log from filling up before the operator corrects the condition.

If Alarm Auto Clear is not enabled, each alarm will log only once if the operator corrects the condition and then clears the alarm. The alarm will log twice if the operator clears the alarm before correcting the condition.

The following table explains the error type that is associated with each error code and icon.
Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informer is completely dark.</td>
<td>Power is not on.</td>
<td>Turn power supply on.</td>
</tr>
<tr>
<td></td>
<td>Loose or disconnected power cable.</td>
<td>Tighten or connect cable.</td>
</tr>
<tr>
<td>Informer has power but does not function.</td>
<td>Hardware failure.</td>
<td>Replace Informer.</td>
</tr>
<tr>
<td>Flow Rate reads 0 when fluid is flowing.</td>
<td>Loose or disconnected flow meter cable.</td>
<td>Check the digital input/output cable going to/from the meter.</td>
</tr>
<tr>
<td>Inaccurate flow reading</td>
<td>Faulty flow meter sensor or meter.</td>
<td>Replace sensor or meter.</td>
</tr>
<tr>
<td></td>
<td>Meter needs calibration.</td>
<td>Calibrate meter. See Meter Calibration, page 17.</td>
</tr>
<tr>
<td>Display readout faulty.</td>
<td>Excessive static discharge.</td>
<td>Replace Informer.</td>
</tr>
<tr>
<td></td>
<td>Ambient temperature too high.</td>
<td>Lower ambient temperature.</td>
</tr>
<tr>
<td>Communication failure</td>
<td>Incorrect data addresses.</td>
<td>Check address configuration.</td>
</tr>
<tr>
<td></td>
<td>Incorrect communication parameters.</td>
<td>Check communication parameters.</td>
</tr>
<tr>
<td>Fluid is not flowing.</td>
<td>Clogs in fluid line or in meter.</td>
<td>Clean fluid line and/or meter. See meter manual.</td>
</tr>
<tr>
<td></td>
<td>Gears worn or damaged.</td>
<td>Service meter. See meter manual.</td>
</tr>
</tbody>
</table>

Diagnostic Information

The LEDs on the bottom of the Informer give important information about system function.

LED Signals

<table>
<thead>
<tr>
<th>Signal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green On</td>
<td>Informer is powered up.</td>
</tr>
<tr>
<td>Yellow</td>
<td>Internal communication in progress.</td>
</tr>
<tr>
<td>Red solid</td>
<td>Informer failure. See Troubleshooting.</td>
</tr>
<tr>
<td>Red flashing</td>
<td>Software is updating.</td>
</tr>
<tr>
<td>Red flashing slowly</td>
<td>Token error; remove token and upload software token again.</td>
</tr>
</tbody>
</table>
## Parts

### Kits for Hazardous Location, 24L074, 24L077, and 24L078

#### Nonhazardous Location

![Nonhazardous Location Diagram]

#### Hazardous Location

![Hazardous Location Diagram]

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Part</th>
<th>Description</th>
<th>24L074</th>
<th>24L077</th>
<th>24L078</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24L073</td>
<td>MODULE, Informer, includes 1a-1c</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>1</td>
</tr>
<tr>
<td>1a</td>
<td>N/A</td>
<td>MODULE, Informer, with software</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>1</td>
</tr>
<tr>
<td>1b</td>
<td>277853</td>
<td>BRACKET</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>1</td>
</tr>
<tr>
<td>1c▲</td>
<td>16P265</td>
<td>LABEL, warning, not shown</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>289813</td>
<td>METER, G3000</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>17C906</td>
<td>CABLE, intrinsically safe*, meter, 16 m (52.5 ft.)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>16M167</td>
<td>POWER SUPPLY, 90–264 VAC input, 15 VDC output. See Manual 332196.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>16K509</td>
<td>CABLE, power, intrinsically safe*, 50 ft. (15 m)</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>244524</td>
<td>GROUND WIRE, assembly with clamp</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>1</td>
</tr>
</tbody>
</table>

▲ Intrinsically safe cables are identified by the blue tags installed on the cables.

! Replacement Danger and Warning labels, tags, and cards are available at no cost.
Kits for Non-Hazardous Location, 24L075 and 24L076

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Part</th>
<th>Description</th>
<th>24L075</th>
<th>24L076</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>24L073</td>
<td>MODULE, Informer, includes 1a-1c</td>
<td>✓</td>
<td>✓</td>
<td>1</td>
</tr>
<tr>
<td>1a</td>
<td>N/A</td>
<td>MODULE, Informer, with software</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1b</td>
<td>277853</td>
<td>BRACKET</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1c</td>
<td>16P265</td>
<td>LABEL, warning, not shown</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>289813</td>
<td>METER, G3000</td>
<td></td>
<td>✓</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>17C905</td>
<td>CABLE, meter, 16 M (52.5 ft.)</td>
<td></td>
<td>✓</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>16V680</td>
<td>POWER SUPPLY, 90–264 VAC input, 15 VDC output</td>
<td>✓</td>
<td>✓</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>244524</td>
<td>GROUND WIRE, assembly with clamp</td>
<td>✓</td>
<td>✓</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>245202</td>
<td>CORD, set, 10 ft (3 m), 120V SJT North American style plug, IEC 320–C13 female connector</td>
<td>✓</td>
<td>✓</td>
<td>1</td>
</tr>
</tbody>
</table>

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.
Not all accessories and kits are approved for use in hazardous locations. Refer to the specific accessory and kit manuals for approval details.

### Accessories for Hazardous Locations

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16K615</td>
<td>Power Cable, 100 ft (30 m), for power supply.</td>
</tr>
<tr>
<td>16K509</td>
<td>Power Cable, 50 ft (15 m), for power supply.</td>
</tr>
<tr>
<td>16M172</td>
<td>Fiber Optic Cable, 50 ft (15 m).</td>
</tr>
<tr>
<td>16M173</td>
<td>Fiber Optic Cable, 100 ft (30 m).</td>
</tr>
<tr>
<td>289814</td>
<td>G3000HR Meter, Positive displacement, gear flow meter, 0.01 to 0.5 gpm (38 to 1900 cc/min.), for low to medium viscosity materials.</td>
</tr>
<tr>
<td>280560</td>
<td>HG6000 Meter, Positive displacement, helical gear flow meter, 0.013 to 6.0 gpm (50 to 22,712 cc/min.), for high flow, high viscosity materials.</td>
</tr>
<tr>
<td>258718</td>
<td>S3000 Solvent Meter, Positive displacement, gear flow meter, 0.01 to 0.5 gpm (38 to 1900 cc/min.), for light viscosity materials.</td>
</tr>
<tr>
<td>24N525</td>
<td>Coriolis Meter, Non-intrusive mass flow meter, for abrasive and filled materials, range of flow rates and materials.</td>
</tr>
<tr>
<td>24C471</td>
<td>Fluid Regulator, 1:2, low flow.</td>
</tr>
<tr>
<td>24C472</td>
<td>Fluid Regulator, 1:3, low flow.</td>
</tr>
</tbody>
</table>

### Accessories for Non-Hazardous Location

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16P467</td>
<td>Power Barrier Kit, includes power barrier, terminal blocks, wiring, and power cable. Add to the power supply to power an additional ProControl 1KE (or Informer).</td>
</tr>
<tr>
<td>16K484</td>
<td>Cable Extension, 50 ft (15 m), for meter.</td>
</tr>
<tr>
<td>24N977</td>
<td>Modbus Gateway Kit, use to communicate with a PLC. Also used together with the AWI Module (Graco PN 15V337), to enable communication with a PC via ethernet.</td>
</tr>
<tr>
<td>24N978</td>
<td>Fiber Optic to Serial Converter Kit, use to communicate with a PLC via a serial cable.</td>
</tr>
<tr>
<td>15V337</td>
<td>Advanced Web Interface Module (AWI), use to communicate from the Informer to a PLC via ethernet. A Modbus Gateway Kit, Graco PN 24N977, sold separately, also is required..</td>
</tr>
<tr>
<td>24N807</td>
<td>Light Tower Kit, includes tower and splitter cable.</td>
</tr>
<tr>
<td>24P006</td>
<td>Digital IO Accessory Cable Kit, includes cable and splitter cable for connecting a light tower or other accessory to the ProControl 1KE system.</td>
</tr>
</tbody>
</table>
Mounting Dimensions

Figure 13  Power Supply

Figure 14  Informer Module

<table>
<thead>
<tr>
<th>Component</th>
<th>A Overall Width in. (mm)</th>
<th>B Overall Height in. (mm)</th>
<th>Overall Depth in. (mm)</th>
<th>Mounting Dimensions Width (C) x Height (D) in. (mm)</th>
<th>E Mounting Hole Size in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply 16M167</td>
<td>16.6 (420.9)</td>
<td>8.7 (221.2)</td>
<td>4.5 (114.8)</td>
<td>15.1 x 6.7 (382.8 x 170.2))</td>
<td>0.31 (7.9)</td>
</tr>
<tr>
<td>Informer</td>
<td>7.2 (183)</td>
<td>6.0 (152)</td>
<td>2.8 (71)</td>
<td>2.5 x 3.0 (64 x 76)</td>
<td>0.28 (7)</td>
</tr>
</tbody>
</table>
Appendix A - Modbus Variable Map

Table 1 Device Identification Registers

<table>
<thead>
<tr>
<th>Register Permissions</th>
<th>Informer Modbus Register</th>
<th>Description</th>
<th>Size</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read Only</td>
<td>401040</td>
<td>Software Version Major</td>
<td>32 Bit</td>
<td></td>
</tr>
<tr>
<td>Read Only</td>
<td>401042</td>
<td>Software Version Minor</td>
<td>32 Bit</td>
<td></td>
</tr>
<tr>
<td>Read Only</td>
<td>401044</td>
<td>Software Version Build</td>
<td>32 Bit</td>
<td></td>
</tr>
<tr>
<td>Read Only</td>
<td>401072</td>
<td>Serial Number String - Bytes 0-3</td>
<td>32 Bit</td>
<td>String, 4 Bytes</td>
</tr>
<tr>
<td>Read Only</td>
<td>401074</td>
<td>Serial Number String - Bytes 4-7</td>
<td>32 Bit</td>
<td>String, 4 Bytes</td>
</tr>
<tr>
<td>Read Only</td>
<td>401076</td>
<td>Serial Number String - Bytes 8-11</td>
<td>32 Bit</td>
<td>String, 4 Bytes</td>
</tr>
<tr>
<td>Read Only</td>
<td>401078</td>
<td>Serial Number String - Bytes 12-15</td>
<td>32 Bit</td>
<td>String, 4 Bytes</td>
</tr>
<tr>
<td>Read Only</td>
<td>401080</td>
<td>Serial Number String - Bytes 16-19</td>
<td>32 Bit</td>
<td>String, 4 Bytes</td>
</tr>
<tr>
<td>Read Only</td>
<td>401082</td>
<td>Serial Number String - Bytes 20-23</td>
<td>32 Bit</td>
<td>String, 4 Bytes</td>
</tr>
<tr>
<td>Read Only</td>
<td>401084</td>
<td>Serial Number String - Bytes 24-27</td>
<td>32 Bit</td>
<td>String, 4 Bytes</td>
</tr>
<tr>
<td>Read Only</td>
<td>401086</td>
<td>Serial Number String - Bytes 28-31</td>
<td>32 Bit</td>
<td>String, 4 Bytes</td>
</tr>
</tbody>
</table>

Table 2 Run Registers

<table>
<thead>
<tr>
<th>Register Permissions</th>
<th>Informer Modbus Register</th>
<th>Description</th>
<th>Size</th>
<th>Units</th>
<th>Low Limit</th>
<th>High Limit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read/Write</td>
<td>402000</td>
<td>Date, Year</td>
<td>16 Bit</td>
<td>YY</td>
<td>1</td>
<td>99</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>402001</td>
<td>Date, Month</td>
<td>16 Bit</td>
<td>MM</td>
<td>1</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>402002</td>
<td>Date, Day</td>
<td>16 Bit</td>
<td>DD</td>
<td>1</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>402003</td>
<td>Time, Hour</td>
<td>16 Bit</td>
<td>HH</td>
<td>0</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>402004</td>
<td>Time, Minute</td>
<td>16 Bit</td>
<td>MM</td>
<td>0</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>402005</td>
<td>Time, Second</td>
<td>16 Bit</td>
<td>SS</td>
<td>0</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>402006</td>
<td>Alarms Needing Acknowledgment</td>
<td>32 Bit</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0b0001–high flow alarm; 0b0010 — low flow alarm; 0b0100–maintenance target — set bit to 0 to reset</td>
</tr>
<tr>
<td>Read Only</td>
<td>402008</td>
<td>Current Grand Total</td>
<td>32 Bit</td>
<td>cc</td>
<td>0</td>
<td>32-bit</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>402010</td>
<td>Current Batch Total</td>
<td>32 Bit</td>
<td>cc</td>
<td>0</td>
<td>999999</td>
<td>Write 0 to reset</td>
</tr>
<tr>
<td>Read/Write</td>
<td>402012</td>
<td>Current Maintenance Total</td>
<td>32 Bit</td>
<td>cc</td>
<td>0</td>
<td>999999</td>
<td>Write 0 to reset</td>
</tr>
<tr>
<td>Read Only</td>
<td>402014</td>
<td>Current Flow Rate</td>
<td>32 Bit</td>
<td>cc/min</td>
<td>0</td>
<td>65536</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>402016</td>
<td>Calibration Mode</td>
<td>16 Bit</td>
<td>0-off, 1=on</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>402017</td>
<td>Calibration, Measured Volume</td>
<td>32 Bit</td>
<td>pulses</td>
<td>0</td>
<td>32-bit</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>402019</td>
<td>Calibration, Actual Dispensed Volume</td>
<td>32 Bit</td>
<td>cc</td>
<td>0</td>
<td>32-bit</td>
<td></td>
</tr>
</tbody>
</table>
## Table 3 Setup Registers

<table>
<thead>
<tr>
<th>Register Permissions</th>
<th>Informer Modbus Register</th>
<th>Description</th>
<th>Size</th>
<th>Units</th>
<th>Low Limit</th>
<th>High Limit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read/Write</td>
<td>403000</td>
<td>Communication, Modbus Mode</td>
<td>16 Bit</td>
<td>0=off, 1=on</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403001</td>
<td>Communication, Modbus Address</td>
<td>32 Bit</td>
<td>1-247</td>
<td>1</td>
<td>247</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403003</td>
<td>Communication, Modbus Baud Rate</td>
<td>16 Bit</td>
<td>0=9600, 1=19200, 2=38400, 3=57600, 4=115200</td>
<td>0</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403004</td>
<td>Communication, Modbus Parity</td>
<td>16 Bit</td>
<td>0=None, 1=Odd, 2=Even</td>
<td>0</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403005</td>
<td>Communication, Modbus StopBits</td>
<td>16 Bit</td>
<td>none</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403006</td>
<td>Display, Date Format</td>
<td>16 Bit</td>
<td>0=mm/dd/yy, 1=dd/mm/yy, 2=yy/mm/dd</td>
<td>0</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403007</td>
<td>Display, Backlight Timer</td>
<td>16 Bit</td>
<td>min</td>
<td>0</td>
<td>99</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403008</td>
<td>Display, Maintenance Totalizer Alarm Enable</td>
<td>16 Bit</td>
<td>0=off, 1=on</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403009</td>
<td>Display, Flow Rate Alarm Enable</td>
<td>16 Bit</td>
<td>0=off, 1=on</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403010</td>
<td>Display, Alarm Auto Clear</td>
<td>16 Bit</td>
<td>0=off, 1=on</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403012</td>
<td>Units, Flow Rate</td>
<td>16 Bit</td>
<td>0=cc/min, 1=l/min, 2=gal/min</td>
<td>0</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403013</td>
<td>Units, Batch Volume</td>
<td>16 Bit</td>
<td>0=cc, 1=l, 2=gal</td>
<td>0</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403014</td>
<td>Units, Grand Volume</td>
<td>16 Bit</td>
<td>0=cc, 1=l, 2=gal</td>
<td>0</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403015</td>
<td>System, Maintenance Target</td>
<td>32 Bit</td>
<td>cc</td>
<td>0</td>
<td>999999</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403017</td>
<td>System, Flow Rate Maximum</td>
<td>32 Bit</td>
<td>cc</td>
<td>0</td>
<td>999000</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403019</td>
<td>System, Flow Rate Minimum</td>
<td>32 Bit</td>
<td>cc</td>
<td>0</td>
<td>999000</td>
<td></td>
</tr>
<tr>
<td>Read/Write</td>
<td>403021</td>
<td>System, Meter K-Factor</td>
<td>16 Bit</td>
<td>cc</td>
<td>10</td>
<td>5000 ( / 1000)</td>
<td></td>
</tr>
</tbody>
</table>
Appendix B - Advanced Web Interface

Overview

The Advanced Web Interface (AWI) is Graco PN 15V337. It is an accessory that works with many Graco devices to enable communication with a PC via ethernet. The kit includes Manual 332459, which contains installation and setup information common to all devices. It includes sections on how to configure your computer, initialize the system, configure the main system settings, and set up your network. Refer to Manual 332459 first, then return to this Appendix for information specific to the Informer.

NOTE: A modbus gateway (Graco PN 24N977, sold separately) and a Fiber Optic to Serial Converter (Graco PN 24N978, sold separately) are required to enable the Informer to communicate with the AWI.

NOTE: The AWI must be version 3.01.001 or greater.

Network Tab

When you have finished setting up the system as directed in Manual 332459, select the Network Tab. It should show at least one Informer on the list of networked devices. Click on the icon for the Informer you desire.

NOTE: If you still need to search for or manually add Informers, see the Network Tab instructions in Manual 332459.
Appendix B - Advanced Web Interface

Monitor Tab

Use this tab to monitor the current device in real time. The only change that can be made on this tab is to reset the batch total. Click **Reset** to change the batch total immediately to zero.
Setup Tab

Click on Setup. Use this tab to view or change your Informer settings. For items with a field, type the desired number in the field and press Enter on your keyboard. The change takes place when you press Enter. For drop-down menus, click on the desired option. The change is immediate.

Target

In this screen section, view or adjust your maintenance target, maximum flow rate target, and minimum flow rate target. Type the desired number in the field.

Units

In this screen section, view or adjust the desired units for flow rate, batch total, and grand total. Use the dropdown menu for each to select different units, if desired.
**K-Factor**

In this screen section, view or adjust the k-factor for the system’s meter. See *Meter Calibration, page 17.*

**Device Name**

In this screen section, type a name in the field to help you differentiate Informers, if you are using more than one.

**Events**

In this screen section, view or adjust the alarm settings and backlight timer. Use the dropdown menus to toggle between On and Off for the maintenance alarm, flow alarm, and auto clear. For the backlight timer, type a number in the field to correspond to the number of minutes the display can be idle before it turns off the backlight to save power.

**Modbus**

In this screen section, view the modbus mode, address, baud rate, and parity. Modbus information must be adjusted on the Informer. If you were to adjust it on your PC, the change would cause a disruption in your connection.

**Date and Time**

In this screen section, view or adjust the date format, date, or time. Use the dropdown menu to select a new date format, if desired. For date and time, type the correct information in the field.
## Technical Data

<table>
<thead>
<tr>
<th>Informer</th>
<th>US</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power In Requirements:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage:</td>
<td>90–264 VAC</td>
<td></td>
</tr>
<tr>
<td>Frequency:</td>
<td>50-60 Hz</td>
<td></td>
</tr>
<tr>
<td>Phase:</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Amps:</td>
<td>1.25A maximum</td>
<td></td>
</tr>
</tbody>
</table>

| **Power Out Requirements:** |                 |                |
| Power Supply 16V680       | 15 VDC, 1.2 A maximum |                |
| Power Supply 16M167       | 15 VDC, 160 mA maximum |                |

| **Maximum Fluid Working Pressure** |                 |                |
| 289813 G3000 Meter         | 4000 psi        | 28 MPa, 276 bar |

| **Environmental** |                 |                |
| Operating Temperature  | 32°-122°F       | 0°-50°C        |
| Storage Temperature    | -22°-140°F      | -30°-60°C      |
| Humidity               | 0 to 95 percent, non-condensing |                |

Display housing is solvent resistant.

### Wetted Parts

See the G3000 meter manual (308778) or Coriolis meter manual (313599).

### Weight

<table>
<thead>
<tr>
<th></th>
<th>US</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informer</td>
<td>1 lb</td>
<td>0.45 kg</td>
</tr>
<tr>
<td>Mounting Bracket</td>
<td>1 lb</td>
<td>0.45 kg</td>
</tr>
<tr>
<td>Power Supply 16M167</td>
<td>9 lb</td>
<td>4.1 kg</td>
</tr>
<tr>
<td>G3000 Meter</td>
<td>6</td>
<td>2.7 kg</td>
</tr>
</tbody>
</table>

### California Proposition 65

**CALIFORNIA RESIDENTS**

⚠️ **WARNING:** Cancer and reproductive harm — www.P65warnings.ca.gov.
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.

FOR GRACO CANADA CUSTOMERS

The Parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English. Les parties reconnaissent avoir convenu que la rédaction du présent document sera en Anglais, ainsi que tous documents, avis et procédures judiciaires exécutés, donnés ou intentés, à la suite de ou en rapport, directement ou indirectement, avec les procédures concernées.

Graco Information

For the latest information about Graco products, visit www.graco.com.
For patent information, see www.graco.com/patents.

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

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Graco reserves the right to make changes at any time without notice.
Original Instructions. This manual contains English. MM 3A2040

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