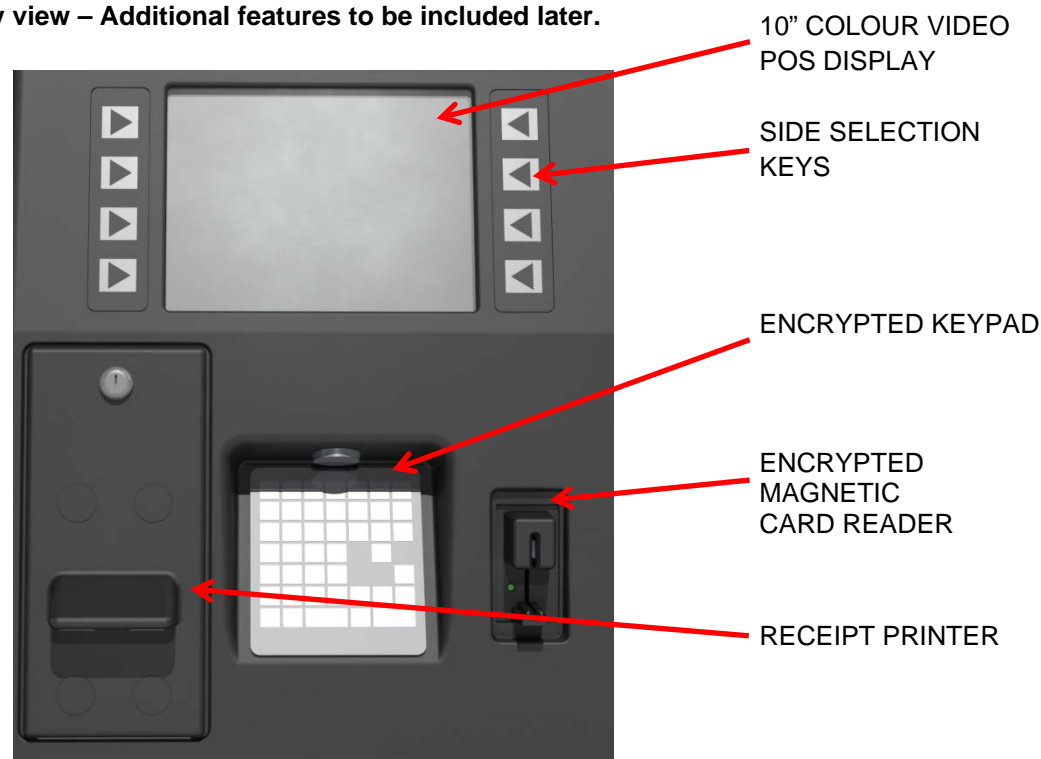


## 6. Configuring the POS System

Preliminary view – Additional features to be included later.



## 7. Leak Test and Repair Procedures



CAUTION

**NEVER ATTEMPT TO TIGHTEN, LOOSEN OR REMOVE A PRESSURIZED FITTING.**

1. Apply a leak detector to all fitting connections – we recommend using Snoop® Liquid Leak Detector.
2. Thoroughly inspect all fitting connections for bubbles, which indicate a leak. Be sure to note or mark the locations where leaks are found.
3. If leaks are found, vent gas from the dispenser.
4. Ensure the dispenser is completely vented; please refer to Owner's Manual for proper venting procedures.
5. Loosen and re-tighten the fittings where the leak(s) are found; most fittings can be repaired simply by tightening them.
6. Re-pressurize the dispenser to 100 psi and reapply the leak detector. If no leaks are detected, continue pressurizing the dispenser, reapplying the leak detector at every 500 psi interval.



CAUTION

**If a leak appears downstream of inlet valve, you must flip the authorization handle to the 'ON' position, forcing the valve(s) to open and release the trapped gas. Continue flipping the authorization handle 'OFF' and 'ON' until the pressure gauge reads 0 psi and all venting sounds have ceased.**

NOTE: If leaks persist, contact Kraus Technical Support.

# QUICK-START GUIDE

## Optima™ Retail CNG Dispenser

This guide is designed to help you start-up and configure your dispenser as quickly as possible, assuming all electrical and mechanical installations have been completed safely and accordingly. Please refer to the accompanying owner's manual for more details on the procedures and dispenser-components mentioned in this guide.



CAUTION

**Electrical installations must only be carried out by licensed electrical journeymen.**



CAUTION

**High pressure gas connections must only be carried out by qualified and experienced personnel.**

This *Quick-Start Guide* includes procedures for:

- Attaching the fueling hose
- Powering up the dispenser
- Pressuring the dispenser
- Setting pump and hose ID's
- Configuring the POS system
- Performing a leak test

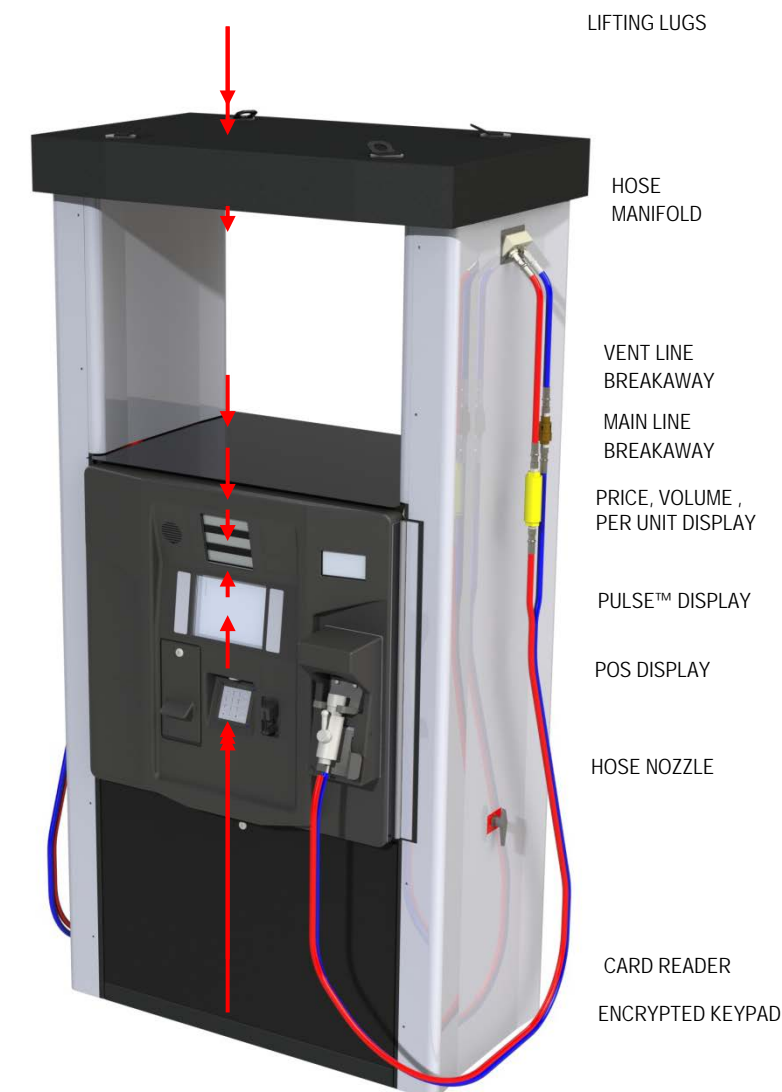
ATTENTION: This manual and the information contained herein are not intended to provide you with any advice on product design, filling station specifications, and installation of equipment or similar matters and should not be relied upon for such purposes. Neither Kraus Global Ltd nor any of its employees or agents are your professional advisers. You should assess whether you require such advisers and additional information and, where appropriate, seek independent professional advice. Kraus, its subsidiaries and affiliates, are not responsible in any manner for direct, indirect, special or consequential damages however caused arising from your use of this manual and the information contained herein.

### Contact Information:

Phone: 1-204-663-3601 Fax: 1-204-663-7112

#### Extensions:

Engineering	203 / 276
Sales	235
Logistics	215
Technical Support	212



## 1. Attaching the Fueling Hose

1. Remove the hose from its packaging.
2. Inspect the hose for defects or damages. Do not use defective or damaged hoses.
3. Attach the main line to the hose manifold, located on the side and along the top of the dispenser. The manifold may be on both sides, depending on the dispenser's hose configuration.
4. Hand-tighten the main line fitting to the manifold so that it may still be loose enough to turn.
5. Straighten the hose and place the nozzle into the holder. The loose fitting should allow the hose to find its natural resting position.
6. Tighten the main line fitting at the manifold with a backup wrench. Hose connections do not require sealants or Teflon tape.



CAUTION

To help avoid abrasive damage to the hoses, do not allow any part of the hose to be in contact with the ground or dispenser while it is holstered. If this cannot be avoided, the hose may be too long; please contact our Technical Support Department immediately.

7. Attach the vent line to its corresponding manifold connection and tighten with a backup wrench.

## 2. Powering-Up the Dispenser



ATTENTION

The dispenser is shipped in "Auto-Authorization Mode". It is recommended that the initial power-up process is done in this mode to facilitate procedures requiring authorization.

1. Remove the bottom panels of the dispenser to access the lower cabinet.
2. Close all manual filter inlet valves, vent valves and shut-off valves.
3. Inspect the Magnehelic gauge; ensure the air pressure is above 0.15 inches-of-water.



ATTENTION

For safety purposes, the upper cabinet must maintain a positive air pressure. A purge switch and timer are used to trigger the automatic system on shutdown and startup. If the Magnehelic gauge displays a pressure lower than 0.15 inches-of-water, dispenser electronics may not function. You may need to increase the purge fan pressure or inspect the cabinet and air purge system for leaks.

4. Turn on the power to the dispenser from the breaker box.  
NOTE: The dispenser-electronics, POS system and Micon will simultaneously initiate the following power-up sequences:
  - a. The Price/Volume display will show the current software version and dispenser model during this sequence. The power-up sequence is complete when the Dollar and Volume displays read 0.00 and 0.000 respectively.
  - b. The digital pressure gauge, located on the secondary display to the right of the main display, will display the Kraus Global logo during power-up. The power-up cycle is complete when the secondary display will display a pressure gauge and a flow rate gauge.

## 3. Pressurizing the Dispenser



ADVICE

To ensure peak performance, all Kraus CNG dispensers should be leak-tested before initial operation. The first leak test should be done while initially pressurizing the dispenser.

1. Turn the manual shut off valve(s), located on the side of the dispenser, to the "ON" position.

2. Flip the authorization handles to the ON position. This enables you to see the pressure reading on the secondary display.
3. Slowly open the inlet valve and allow 100 psi of gas to fill the dispenser.
4. Close the inlet valve and flip the authorization handles to the OFF position once the pressure gauge indicates 100 psi.
5. Apply a leak detector to all fitting connections in the lower cabinet. We recommend using Snoop® Liquid Detector. NOTE: if any leaks are detected, please refer to Section 7—Leak Test and Repair Procedures.
6. If no leaks are found, reauthorize the dispenser by flipping the authorization handles up to the ON position.
7. Slowly reopen the valve to allow 500 psi of gas to fill the dispenser.
8. Close the valve once the pressure gauge indicates 500 psi.
9. Reapply the leak detector; see NOTE in Step 5 if leaks are detected.
10. Repeat this process in 500 psi increments until the regular operating pressure is reached. Repeat this process for each inlet valve.

## 4. Connecting the Manager-Keypad

1. Power-off the dispenser from the breaker box.
2. Open the upper cabinet. You may need the dispenser keys to unlock the cabinet door.
3. Retrieve the Manager-Keypad from inside the upper cabinet. The Keypad is a flat magnetic keypad connected to a cable; it may be found attached to the inside wall of the upper cabinet.
4. Connect the Keypad to the PIN connector labeled "KEYPAD 2" located directly behind the dispenser 3-line display. (see Figure 1).
5. Hang the Keypad over the outer face of the cabinet door.
6. Ensure the cabinet door is closed and fully sealed. Dispenser electronics will not function if the upper cabinet is not sufficiently pressurized.

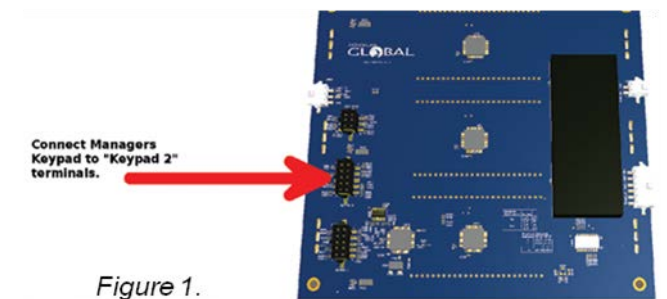


Figure 1.  
Manager Keypad connector on pump door node

## 5. Enabling 2-Wire Mode and Setting Pump/Hose ID's

1. After connecting the Manager Keypad, enter the password 1234
2. Press the DOWN key until the first line of the display shows the setting "2WR ENAB".
3. Press the "1" key followed by the START key to enable 2-Wire Mode and save setting.
4. Press the DOWN key once. The display should now read "2WR ID A".
5. Enter the desired Hose 1 address (a value from 1-256). Press "START" key to save the setting. Figure 2 shows the display for Hose 25 address.
6. Press DOWN key once. The display should now read "2WR ID B".
7. Enter the desired Hose 2 address (a value from 1-256). Press "START" key to save the setting.
8. These settings will not take effect without rebooting the system. To reboot the Micon, press the DOWN key until the first line of the display reads "REBOOT".
9. Press the "1" key, followed by the "START" key. The Micon should now perform a complete reboot. Wait a moment for the system to complete the restart and the new 2-wire configuration should take effect.



Figure 2 - Display for Hose 25