P4-SERIES LPG DISPENSERS

INSTALLATION "QUICK-GUIDE" ver 2.1

WARNINGS:

!!! - This device is electrical powered and should only be installed by a licensed electrician, who is specifically familiar with Class 1, Division 1 & 2 Hazardous area installations. Injuries resulting from incorrect installation, installation by an un-licensed or under qualified electrician, misuse, or other improper installation activity, are NOT the liability of the manufacturer.

!!! – This device is designed to contain Liquified Petroleum Gas (Propane or LPG) at a working pressure differential not to exceed 300 psi. It should only be installed by a qualified and/or licensed professional Gas technician. Injuries resulting from incorrect installation, installation by an un-licensed or under qualified gas technician, misuse, or other improper installation activity, are NOT the liability of the manufacturer.

MOUNTING NOTES:

1. This dispenser must be affixed to a solid base (recommended either a minimum 4" think re-enforced concrete pad or a steel skid frame) with a minimum of 4 each, 5/16" grade 3 bolts, mounted in 4 of the provided base mount slots. This is a requirement of UL 495.
2. There must be a minimum 24 gpm excess flow installed on the inlet piping to the dispenser, or an approved shear/break-away device (Such as the Squib Taylor Tripod System) to prevent loss of fuel in the event of a cabinet knock-over and rupture in supply/vapor return piping. This is a requirement of NFPA Pamphlet 58
3. The Autogas delivery hose installation for this dispenser should include:
    a. A whip hose installed in the outlet elbow, with a maximum length of 24"
    b. An approved pull-away device such as the MEC model MEC860S6. The pull-away should be hard mounted to a stud in the pad of the skid frame, approximately 4" to the right of the cabinet, and 4" projecting in front of the cabinet. Failure to properly mount the pull-away to ensure 180 degrees of left and right rotation, and/or mounting to the dispenser cabinet, may cause a failure to separate in the event of an accident, and result in injury.
    c. A delivery hose installed in the pull-away outlet, with a standard length of 12' and not to exceed 18' as per NFPA Pamphlet 58.
    d. The dispenser nozzle boot is designed for an LGE / ELAFLEX GG20 nozzle or exact equivalent. Use of any other nozzle may adversely affect the nozzle boot switch, if so equipped.
4. The Liquid supply piping from the pump to the dispenser inlet MUST be a minimum of 3'4" schedule 80 pipe. 1" or larger is recommend for pump to dispenser pipe runs in excess of 15'.
5. The vapor return piping from the vapor eliminator gauge and valve assembly MUST be a minimum of 3/8" copper tubing. However PARAFOUR strongly recommends using a minimum of 3/4" schedule 80 Pipe.
6. PARAFOUR Strongly recommends and encourages the use of under-cabinet break-away shear protection for both the liquid supply lines, and the vapor return lines under the dispenser, especially for public accessible sites.

ELECTRICAL NOTES:

BLACK wire Connect to 120 vac, 60 hz, minimum 5 amp breaker
(if card reader, is used, then use the SAME leg as the card reader)

WHITE wire, Connect to Neutral

GREEN wire, Connect to ground
Parafour SRONGLY recommends that a dedicated ground rod be driven directly below or adjacent to the cabinet, for cabinet ground and static charge dissipation

RED wire, Connect to motor starter relay for control of motor contactor, max 1.5 amps
This wire can also be connected to card readers for use as an “In-Use” or “Hook” signal. On units with integral pump, the motor starter may be pre-wired to the mag starter in the electronics head, in which case this wire is ONLY for an “in-use” signal to card readers, or as a command wire to open internal valves solenoid, if take is so equipped. (NOTE: For multiple dispensers, each hose computer Red wire must be isolated for other dispensers with a relay (FINDER model 48.31.8.120.0060.SAP, available from Parafour, or equivalent)

SHEILDED Wires: (NOTE: The drain wire of the shield should be connected to a DC ground at the card reader end)

RED / BLACK Pair
RED wire, Connect to Pulser + supply voltage from card reader
(usually 5-12 vdc)
BLACK wire, Connect to Pulser – for signal to card reader
(NOTE: some card readers require a resistor to be installed between the + & - Pulse wires)

WHITE / BLACK Pair
WHITE wire, Connect to card reader authorize relay, NO, close on authorize
BLACK wire, Connect to card reader authorize relay, NO, close on authorize
(NOTE: Some card readers require either a modification to the control board (such as Fuel Master FMU2500), or a special control board (Fuel Master FMU2500) or that a separate relay be installed in the card reader)

NOTE: For card reader installations, PARAFOUR DOES NOT recommend that the solenoid be used as a control point. The dispenser should be configured for a card reader, and both units properly interconnected and configured to work together.

Main Computer Board Connections

