

WHAT TO DO FIRST

Upon receiving your new tank with PLC system equipment, always check for physical signs of damages before signing the bill of lading. Inspect for possible damage that might have occurred during shipment. All products are inspected at point of shipment to ensure they are free of any defects. Dropping and other rough handling in transit could place stress that will result in a failure. Check to ensure the system equipment arrives in good condition.

THEN

Always have the fuel system installed by trained, authorized personnel.

Record your model and serial numbers here and save this manual. The model and serial numbers are located on the tag inside the electrical enclosure cover.

Model:

Install Date:

Serial Number

Refer to this serial number whenever you contact the factory:

Pryco, Inc. 3rd and Garvey Streets P.O. Box 108 Mechanicsburg, IL 62545 Telephone: 217-364-4467 Fax: 217-364-4494 Email: Pryco@Pryco.com

PLC MAINTENANCE

The PLC components , including the touch screen, generally need no maintenance except for an occasional dusting or light cleaning.

In a dusty environment, canned aerosol air, as is used for computer keyboards, etc., should be used to blow dust out of component vents.

The LCD touch screen will magnetically attract airborne particles and fingerprints. Do not use any abrasive cleaner or towels to clean the LCD screen—it will be permanently scratched. A <u>dry</u> soft cloth should be used. For more stubborn dirt, commercially available aerosol cleaners (for LCD/Plasma television, computer LCD monitor screen, etc.) and a soft cloth should work. Never use a petroleum-based solvent.

MAIN MENU

This is the "home" touch screen page of the Evolution system. From here, using soft buttons an operator may select subsequent pages to monitor and control the fuel system PLC.



SYSTEM MENU

This password protected page contains critical information relevant to the overall Evolution PLC system. The system password is maintained here.



CONTROL PANEL Graphics Description

This is the monitoring screen page. Each monitored feature that is available to the system is represented here as a solid illuminated lamp. If a feature becomes "active" the lamp graphic flashes. An operator can determine at a glance if the system is operating normally.

Two yellow linear-scaled graphics report fuel level in "percent full" and in gallons. A digital readout of number of gallons (blue) is shown above these areas.



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CONTROL PANEL Graphics Actions/Alarms Display – Column 1

Ded Crambia LED	LIT SOLID	FLASHING
Lamps lit solid gen- erally indicates nor- mal operation.	The "HOA Switch(s) " is in the "AUTO" position.	The HOA switch(s) is not in the "AUTO" postion.
	The "Alarm Silence Switch".	The alarm silence switch is for silencing alarm horn when or-dered with Opt 223/224.
	The "Rupture Alarm" monitor is functioning properly.	A leak in the secondary contain- ment area is detected.
CRITICAL HIGH FUEL SUPPLY PUMP 2	The "Critical High" fuel monitor is functioning properly.	The fuel level has exceeded the predetermined high fuel level— normally 103% capacity. Supply pump(s) and motor(s) are shut- down.
Correct the abnor-	A second pump and motor (Supply Pump #2) of a duplex system is installed. (See page 8 to determine how the duplex system is set to operate.)	The second pump and motor (Supply Pump #2) of a duplex system is running. (See page 8 to determine how the duplex system is set to operate.)
mal condition that is causing a flashing red LED graphic. The system will au- tomatically restore the flashing LED graphic to its solid state.	A single pump and motor (Supply Pump) or the first pump and motor (Supply Pump #1) of a duplex system is installed. (See page 8 to determine how the duplex system is set to op- erate.)	A single pump and motor (Supply Pump) or the first pump and motor (Supply Pump #1) of a duplex system is installed run- ning. (See page 8 to determine how the duplex system is set to operate.)

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the flashing LED graphic to its solid

state.

CONTROL PANEL Graphics Actions/Alarms Display – Column 2

	LIT SOLID	FLASHING
Red Graphic LED Lamps lit solid gen- erally indicates nor- mal operation.	The "Sensor Fail" monitor is functioning properly.	The sensor has lost signal or is not functioning at all. LED on top of ultra-sonic should always be RED.
SENSOR FAIL	The "High Fuel" monitor is func- tioning properly.	The fuel level has exceeded the predetermined high fuel level - normally 102% capacity.
	The "Low Fuel" monitor is func- tioning properly.	The fuel level has dropped to the predetermined low fuel level - normally 50% capacity.
	The "Critical Low" fuel monitor is functioning properly.	The fuel level has dropped to the predetermined critical low fuel level – normally 5% capaci- ty.
CRITICAL LOW		To prevent loss of engine fuel prime, the generator engine should wired through critical low.
REVERSE PUMP 2 REVERSE PUMP 1	A second pump and motor (Reverse Pump #2) of a duplex system is installed. (See page 8 to determine how the duplex system is set to operate.)	The second pump and motor (Reverse Pump #2) of a duplex system is running. (See page 8 to determine how the duplex system is set to operate.)
Correct the abnor- mal condition that is causing a flashing red LED graphic. The system will au-	A single pump and motor (Reverse Pump) or the first pump and motor (Reverse Pump #1) of a duplex system is installed. (See page 8 to deter- mine how the duplex system is set to operate.)	A single pump and motor (Reverse Pump) or the first pump and motor (Reverse Pump #1) of a duplex system is installed running. (See page 8 to determine how the duplex system is set to operate.)

PUMPS & MOTORS

This LCD screen page contains input HOA switch and light graphics where an operator can control each pump motor of the fuel system. A motor may operate in either automatic or manual mode. The illuminated LCD boxes to the right of each switch report the switch position of its associated motor.



SUPPLY MOTORS (HOA) Soft Push Button

For control of Supply Pumps and Motors.

REVERSE MOTORS (HOA) Soft Push Button

For control Reverse Pumps and Motors.

SEE PAGE 9

For a description and use of the HOA switches and LED graphics

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PUMPS & MOTORS HOA Switches and LED Displays

Shown below is a graphic displays of an HOA switch and associated LED lamps. A graphic will be displayed for each pump motor installed. By pressing the left \blacktriangleleft and right \blacktriangleright arrows, the "HOA Selection Knob" will move the red bar to point to which of the three modes is selected.



HISTORY Activity Log Display

This screen page reports a time/date historical log of pump motor activities and alarm conditions. The soft push-buttons at bottom assist in scrolling through the log.



PARAMETERS

This password-protected page contains level settings at which specified actions (pump motor on/off, high low fuel levels, etc.) are to begin. Optional Pump fail timers are also displayed for user defined time. This allows dynamic fine tuning at the job sight.



PRYCO, INC. p. 0. box 108

Telephone: 217 / 364-4467 Fax: 217 / 364-4494 Web Site: www.Pryco.com Email: Pryco@Pryco.com

