Panel Wiring Diagram
Model S1 PT RO

Orenco Systems®
Incorporated

Simplex Operation

High Level Alarm: This float activates the alarm light and audible alarm when lifted. The audible alarm may be silenced by pressing the illuminated PUSH TO SILENCE button on the front of the control panel. The alarm light will remain on until the float is lowered.

Timer Override On & Off: This float turns on the pump when lifted and off when lowered.

Timer On & Off: This float turns off the programmable timer when lowered. When this float is lifted the timer will be restarted. Note: The timer will start with its off cycle.

Redundant Off & Low Level Alarm: This float turns off the pump when lowered. This float is a secondary off float which will operate if the Timer On & Off float fails. Pumping will be disabled in both the automatic and manual modes. This float also activates the alarm light and audible alarm. The audible alarm may be silenced by pressing the illuminated PUSH TO SILENCE button on the front of the control panel. The alarm light will remain on until the float is lifted.

Programmable Timer: The timer turns the pump on and off in a pre-set cycle. Note: The timer will start with its off cycle.
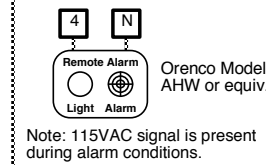
Key

Symbol	Meaning
——	= Factory Wire
······	= Field Wire
– · –	= Alternate Field Wire
A	= Audio Alarm, 115 VAC
AL	= Alarm Light
AS	= Audio Silence Switch
CCB	= Controls Circuit Breaker
CR1	= Redundant Off Relay
M	= Motor Contactor
PCB	= Pump Circuit Breaker
PT	= Programmable Timer
SR	= Silence Control Relay
TL	= Terminal Link

*Options
CT	= Cycle Counter
ETM	= Elapsed Time Meter
HT	= Heater
PL	= Power Light
PRL	= Pump Run Light

Remote Alarm Connections

| 4 | N |

Remote Alarm
Light Alarm

Orenco Model AHW or equiv.

Note: 115VAC signal is present during alarm conditions.

Options*

ETM 0 0 0 2 5

CT 9 9 9 5 1 0

Options*

HT

Terminal Strip

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | N | N1 | CCB 10A | PCB 20A | Ground Lug |

Green

Controls Neutral / Pump Neutral / Controls L1 / Pump L1 / Ground

From Main Power Panel 115 VAC, 1 Phase, 60 Hz. Main disconnect provided by others.

For float arrangement diagram, see drawing no. "EDW-FA-S-4".

Pump
115 VAC / 1 Hp.
1 Phase / 60 Hz.

NOTE: Motors must have internal overload protection

Removal of Alarm / Override Link Rail

Terminal Link Rail

Removal of the terminal link rail will separate the high level alarm and timer override functions.

Power Wiring Options

Two Circuits

Pump Neutral / Controls Neutral / Controls L1 / Pump L1 / Ground
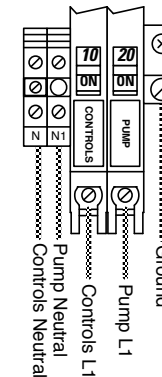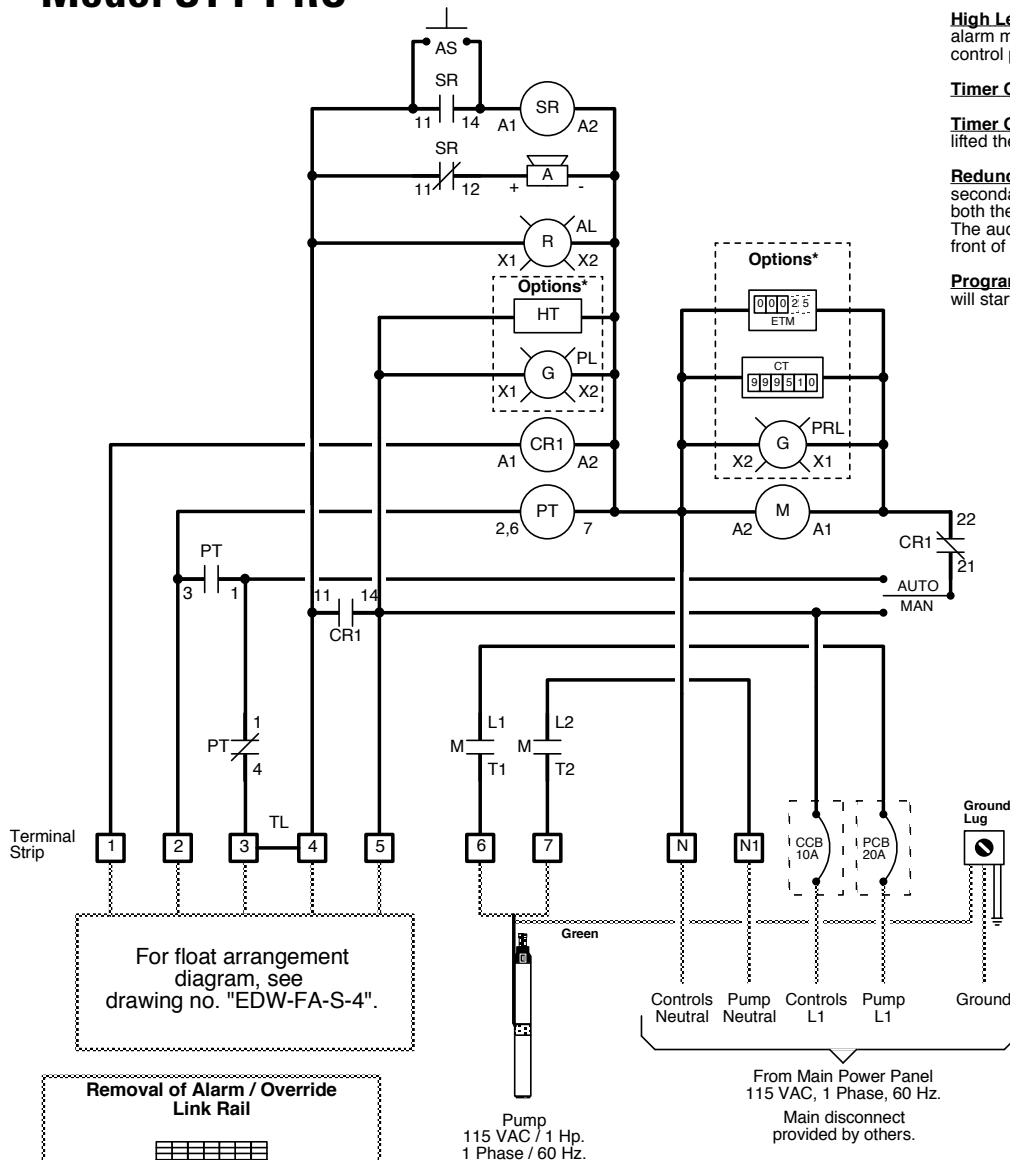
Factory default. Wire as shown.

One Circuit
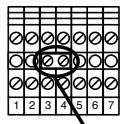
Neutral / Controls L1 / Ground
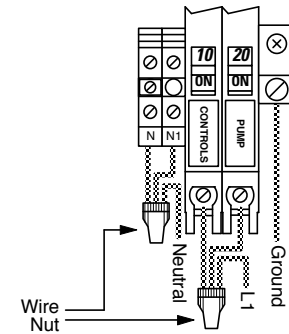
Wire Nut

Use one wire nut to connect the pole of the pump circuit breaker together with the controls breaker and with the incoming L1 power line. Use another wire nut to connect the neutral block of the pump with the controls neutral block and with the incoming neutral line.

EDW-WD-S-4
Rev. 6.0 © 05/01/07