Panel Wiring Diagram
Model DAX1 RO
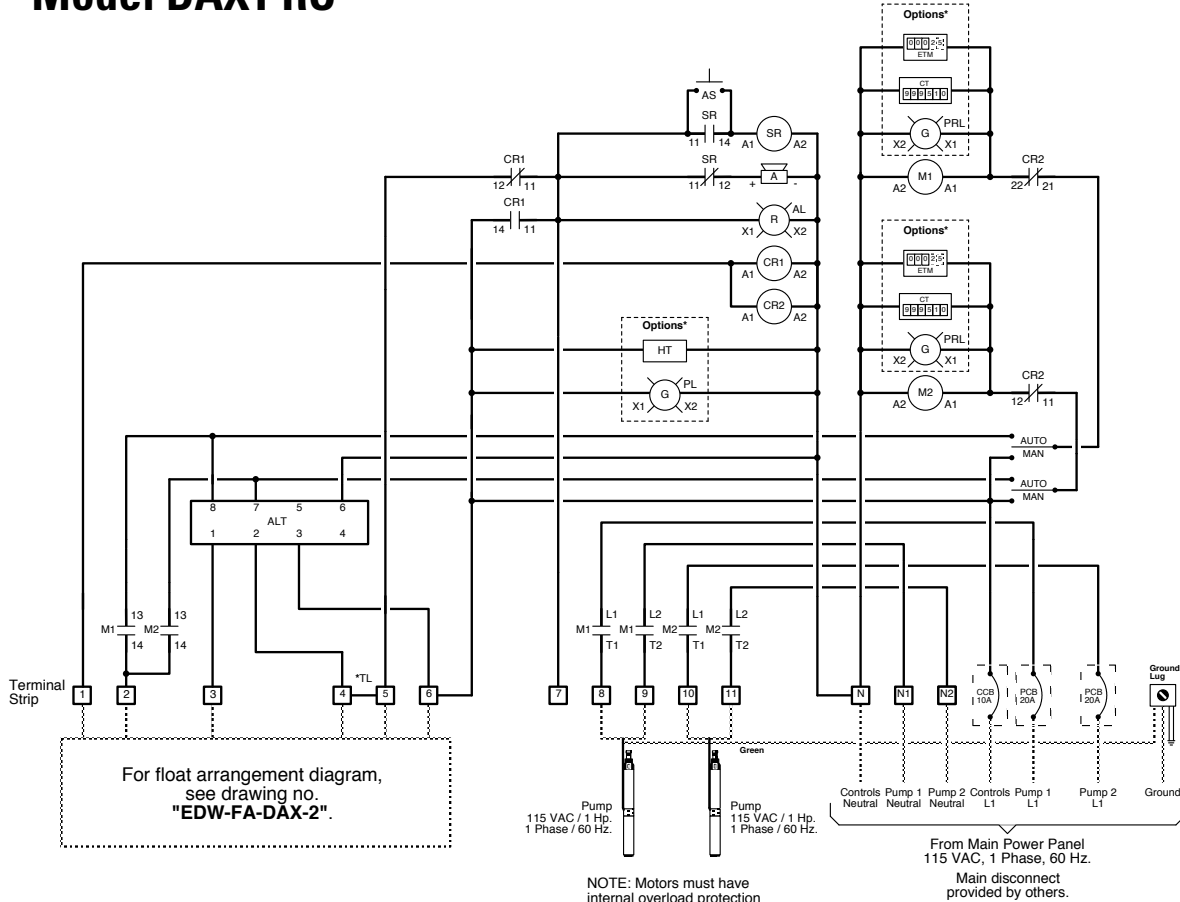
OSI

Orenco Systems®
Incorporated

Duplex 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.

Lag Pump On: This float turns on the lag pump when lifted. The pump will continue to run until the Pumps Off float is lowered.

Lead Pump On: This float turns on the lead pump when lifted. The pump will continue to run until the Pumps Off float is lowered.

Pumps Off: This float turns off the pumps when lowered.

Redundant Off & Low Level Alarm: This float turns off the pump(s) when lowered. This float is a secondary off float which will operate if the Pumps 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.
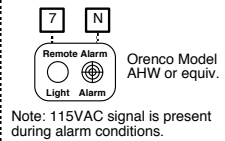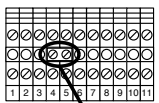
Options*
ETM
CT
PRL
X2 G X1
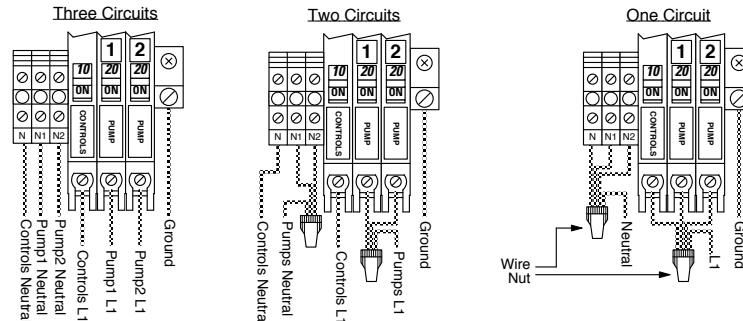M1
A2 A1

Options*
ETM
CT
PRL
X2 G X1
M2
A2 A1

Options*
HT
PL
X1 G X2

AS
SR
11 14 A1 SR A2
SR
11 12 + A -

CR1
12 11
CR1
14 11
R AL
X1 X2
CR1
A1 A2
CR2
A1 A2

CR2
22 21
CR2
12 11

AUTO
MAN
AUTO
MAN

8 7 5 6
ALT
1 2 3 4

M1 13 M2 13
14   14

*TL

Terminal Strip
1 2 3 4 5 6 7 8 9 10 11 N N1 N2 CCB 10A PCB 20A PCB 20A Ground Lug

M1 L1 L2 L1 L2
M1 T1 M2 T2 M2 T1 M2 T2

Green

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

Controls Neutral Pump 1 Neutral Pump 2 Neutral Controls L1 Pump 1 L1 Pump 2 L1 Ground

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

NOTE: Motors must have internal overload protection

For float arrangement diagram, see drawing no. **"EDW-FA-DAX-2"**.

Remote Alarm Connections

7 N

Remote Alarm
Light Alarm

Orenco Model AHW or equiv.

Note: 115VAC signal is present during alarm conditions.

*Removal of Alarm / Lag Link Rail

1 2 3 4 5 6 7 8 9 10 11

Terminal Link Rail

Removal of the terminal link rail will separate the high level alarm and Lag Pump On functions.

Power Wiring Options

Three Circuits

10 ON 20 ON 20 ON
N N1 N2 CONTROLS PUMP PUMP

Controls Neutral Pump1 Neutral Pump2 Neutral Controls L1 Pump1 L1 Pump2 L1 Ground

Factory default. Wire as shown.

Two Circuits

10 ON 20 ON 20 ON
N N1 N2 CONTROLS PUMP PUMP

Controls Neutral Pumps Neutral Controls L1 Pumps L1 Ground

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

One Circuit

10 ON 20 ON 20 ON
CONTROLS PUMP PUMP

Wire Nut Neutral Controls L1

Use one wire nut to connect the pole of each 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 each pump with the controls neutral block and with the incoming neutral line.

Key

— = Factory Wire
∿ = Field Wire
– – = Alternate Field Wire
A = Audio Alarm, 115 VAC
AL = Alarm Light
ALT = Duplex Alternator
AS = Audio Silence Switch
CCB = Controls Circuit Breaker
CR1 = Low Level Alarm Relay
CR2 = Redundant Off Relay
M = Motor Contactor
PCB = Pump Circuit Breaker
SR = Silence Control Relay
TL = Terminal Link

*Options

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

EDW-WD-DAX-2
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