Panel Wiring Diagram
Model DAX2 RO

OSI

Orenco Systems®
Incorporated

Options*

ETM

CT

PRL

G X2 X1

M1

SR

AS

SR

11 14 A1 SR A2

SR

11 12 + A -

R AL

X1 X2

CR1

A1 CR1 A2

A1 CR2 A2

CR1
12 11

CR1
14 11

CR2
22 21

Options*

ETM

CT

G PRL

X2 X1

M2

CR2
12 11

Options*

HT

G PL

X1 X2

AUTO
MAN

AUTO
MAN

8 7 5 6
1 2 3 4
ALT

M1 13   M2 13
14   14

*TL

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

Terminal
Strip

1 2 3 4 5 6 7 8 9 10 11 N

**Ground
Lug**

CCB
10A   PCB
20A   PCB
20A

Green

Pump
230 VAC / 3 Hp.
1 Phase / 60 Hz.

Pump
230 VAC / 3 Hp.
1 Phase / 60 Hz.

Controls
Neutral

Controls
L1

Pump 1
L1 L2

Pump 2
L1 L2

Ground

From Main Power Panel
230/115 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".

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.

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
CONTROLS PUMP PUMP
Controls Neutral Controls L1 Pump1 L1 Pump1 L2 Pump2 L1 Pump2 L2 Ground

Factory default.
Wire as shown.

Two Circuits

10 ON 20 ON 20 ON
CONTROLS PUMP PUMP
Controls Neutral Controls L1 Pumps L1 Pumps L2 Ground

Use one wire nut to connect the first pole of each pump circuit breaker together with the incoming L1 power line. Use another wire nut to connect the second pole of each pump circuit breaker together with the incoming L2 power line.

One Circuit

10 ON 20 ON 20 ON
CONTROLS PUMP PUMP
Neutral L1 L2 Ground

Wire
Nut

Use one wire nut to connect the first 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 second pole of each pump circuit breakers with the incoming L2 power line.

Key

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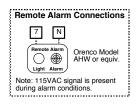ALT = Duplex Alternator
AS = Audio Silence Switch
CCB = Controls Circuit Breaker
CR1 = Low Level Alarm Relay
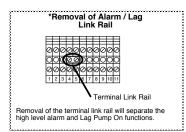CR2 = Redundant Off Relay
M = Motor Contactor
PCB = Pump Circuit Breaker
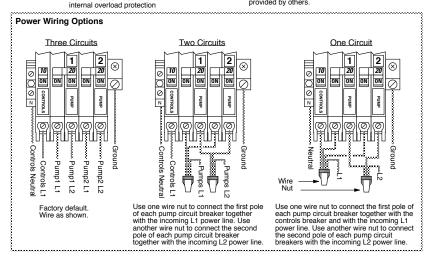SR = Silence Control Relay
TL = Terminal Link

*Options

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

EDW-WD-DAX-6
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