Panel Wiring Diagram
Model DAX1 IR2
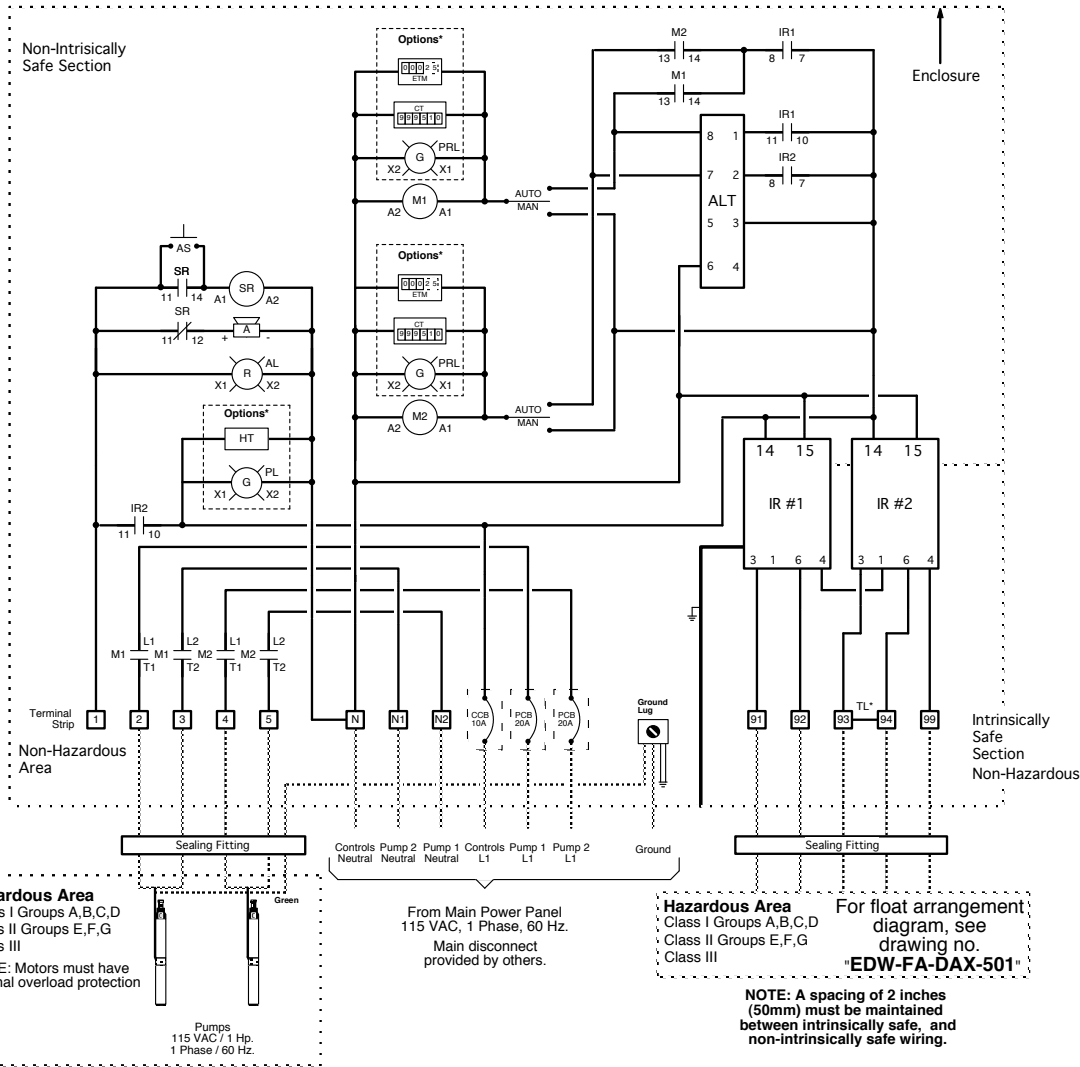

Non-Intrinsically Safe Section

Enclosure

Options*
ETM
CT
PRL
X2 G X1
M1 A2 M1 A1
AUTO / MAN

Options*
ETM
CT
PRL
X2 G X1
M2 A2 A1
AUTO / MAN

Options*
HT
PL
X1 G X2

M2 13 14
M1 13 14
IR1 8 7

8 1
7 2
ALT
5 3
6 4

IR1 11 10
IR2 8 7

AS
SR 11 14 A1 SR A2
SR 11 12 + A -
AL X1 R X2

IR2 11 10

14 15   14 15
IR #1   IR #2
3 1 6 4   3 1 6 4

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

Terminal Strip
1 2 3 4 5   N N1 N2   CCB 10A   PCB 20A   PCB 20A   Ground Lug

91 92   93 TL* 94   99

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

Intrinsically Safe Section Non-Hazardous

Non-Hazardous Area

Sealing Fitting

Sealing Fitting

Hazardous Area
Class I Groups A,B,C,D
Class II Groups E,F,G
Class III
NOTE: Motors must have internal overload protection

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

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

Hazardous Area
Class I Groups A,B,C,D
Class II Groups E,F,G
Class III

For float arrangement diagram, see drawing no. **"EDW-FA-DAX-501"**

NOTE: A spacing of 2 inches (50mm) must be maintained between intrinsically safe, and non-intrinsically safe wiring.

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.

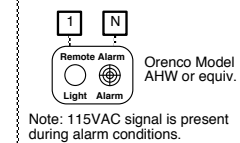**Pumps Off:** This float turns off the pumps when lowered.

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
- IR = Intrinsically Safe Relay
- M = Motor Contactor
- PCB = Pump Circuit Breaker
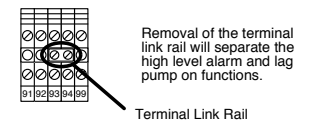- SR = Silence Control Relay
- TL = Terminal Link

*Options

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

Remote Alarm Connections

1   N

Remote Alarm
Light Alarm

Orenco Model AHW or equiv.

Note: 115VAC signal is present during alarm conditions.

* Removal of Alarm / Lag Pump Link Rail

Removal of the terminal link rail will separate the high level alarm and lag pump on functions.

91 92 93 94 99

Terminal Link Rail

Power Wiring Options

Three Circuits

N N1 N2   CONTROLS PUMP 1 PUMP 2
10 ON 20 ON 20 ON

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

Factory default. Wire as shown.

Two Circuits

N N1 N2   CONTROLS PUMP 1 PUMP 2
10 ON 20 ON 20 ON

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

N N1 N2   CONTROLS PUMP 1 PUMP 2
10 ON 20 ON 20 ON

Wire Nut   Neutral   L1   Ground

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.

EDW-WD-DAX-501
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