Panel Wiring Diagram
Model DAX2 IR2 RO
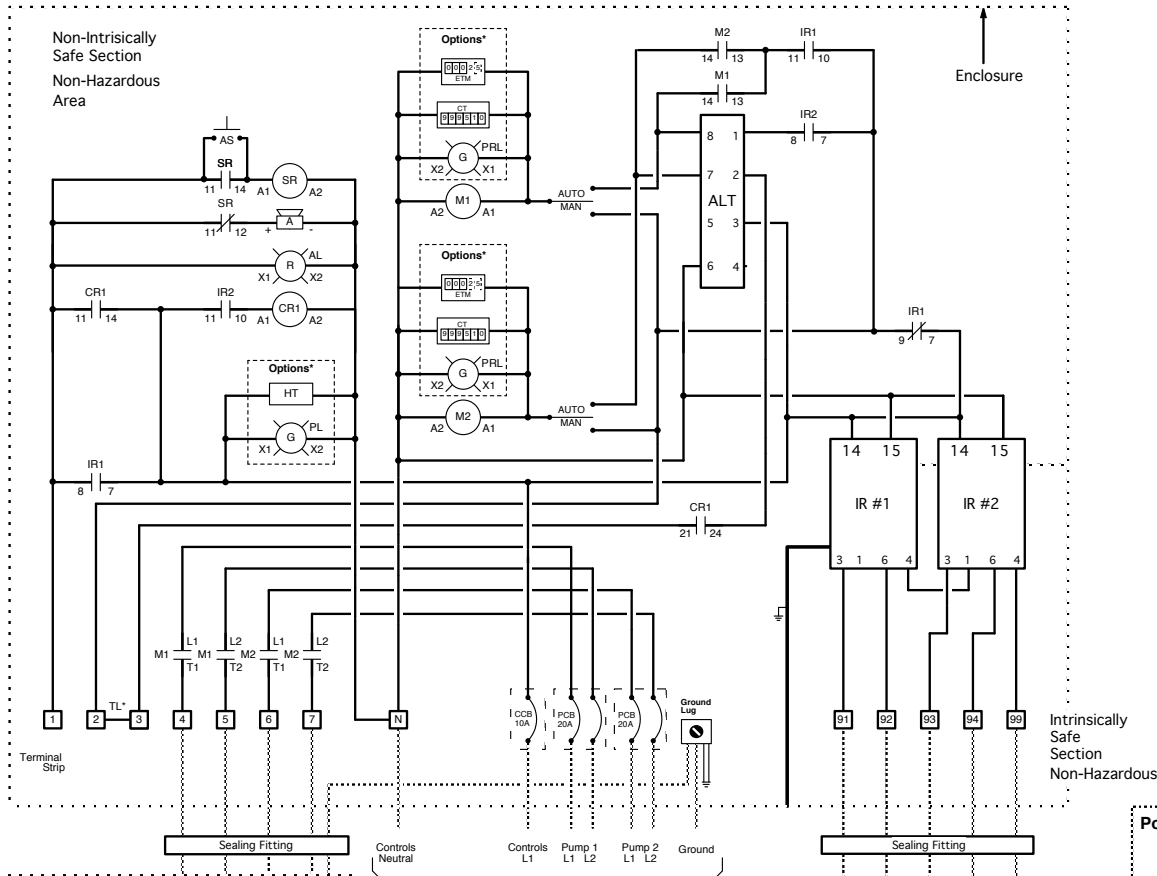
Non-Intrisically Safe Section

Non-Hazardous Area

Enclosure

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

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

ALT
8 1
7 2
5 3
6 4

M2 14 13
M1 14 13
IR1 11 10
IR2 8 7

IR1 9 7

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

CR1 11 14
IR2 11 10
A1 CR1 A2

Options*
HT
G PL
X1 X2

IR1 8 7

CR1 21 24

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

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

Terminal Strip
1 2 TL* 3 4 5 6 7 N

CCB 10A   PCB 20A   PCB 20A   Ground Lug

91 92 93 94 99

Intrinsically Safe Section Non-Hazardous

Sealing Fitting

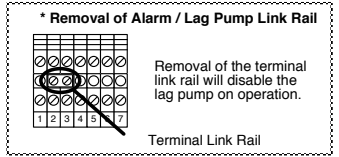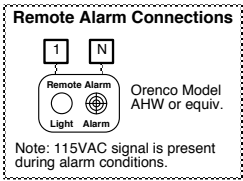Controls Neutral   Controls L1   Pump 1 L1 L2   Pump 2 L1 L2   Ground

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

Green

From Main Power Panel
230/115 VAC, 1 Phase, 60 Hz.

Main disconnect provided by others.

Sealing Fitting

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-502"**

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

Duplex Operation

High Level Alarm/Lag Pump On: This float turns on th lag pump and 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 pump will continue to run and the alarm light will remain on 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 is a secondary off float which will operate if the Pumps Off float fails. Pumping will be diabled 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.

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	= Lag On Relay
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

Power Wiring Options

Three Circuits

10 ON CONTROLS   1 20 ON PUMP   2 20 ON PUMP

Controls Neutral   Controls L1   Pump1 L1   Pump1 L2   Pump2 L1   Pump2 L2   Ground

Factory default. Wire as shown.

Two Circuits

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

Controls Neutral   Wire Nut   L1   L2   Ground

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.

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 disable the lag pump on operation.

1 2 3 4 5

Terminal Link Rail