Panel Wiring Diagram
Model DAX2 IR2 PT RO
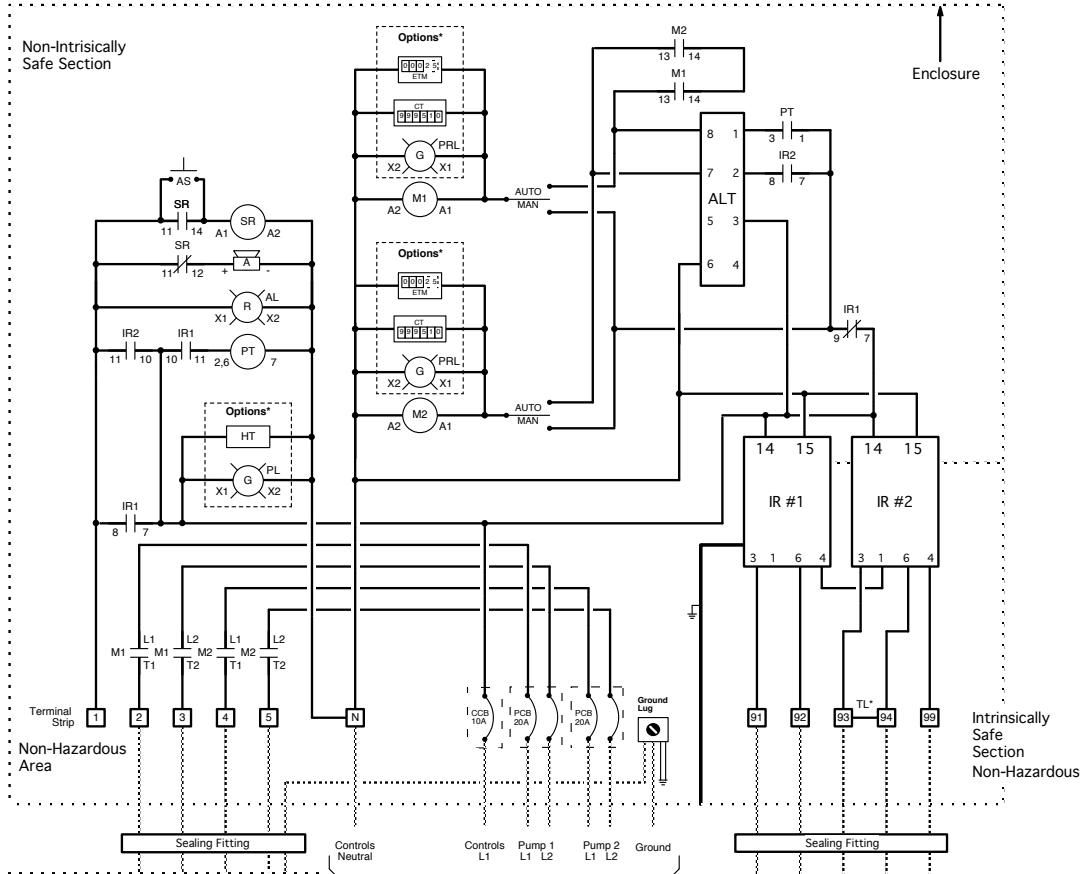
Duplex Operation

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.

Timer Override On & Off: This float turns on the lag 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(s) 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 float is lifted.

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

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
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

Diagram labels (Non-Intrinsically Safe Section)

Non-Intrinsically Safe Section

Enclosure

Options* ETM / CT / PRL / M1 / AUTO MAN

AS / SR / SR / A / R / AL / IR2 / IR1 / PT

Options* ETM / CT / PRL / M2 / AUTO MAN

M2 / M1 / PT / IR2 / ALT / IR1

Options* HT / PL

IR #1 / IR #2

Terminal Strip: 1 2 3 4 5 N

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

CCB 10A / PCB 20A / PCB 20A / PCB 20A / Ground Lug

91 92 93 TL* 94 99

Non-Hazardous Area

Intrinsically Safe Section Non-Hazardous

Sealing Fitting

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

Hazardous Area (lower left)

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

NOTE: Motors must have internal overload protection

B / Green / R
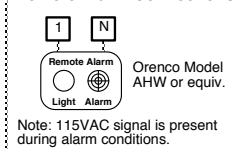
Pumps
230 VAC / 3 Hp.
1 Phase / 60 Hz.

From Main Power Panel
230/115 VAC, 1 Phase, 60 Hz.
Main disconnect provided by others.

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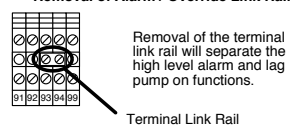Class I Groups A,B,C,D
Class II Groups E,F,G
Class III

For float arrangement diagram, see drawing no. "**EDW-FA-DAX-504**"
For float arrangement diagram, see drawing no. "**EDW-FA-DAX-505**"

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

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 / Override 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

10 ON CONTROLS / 20 ON PUMP / 20 ON PUMP

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

Factory default. Wire as shown.

Two Circuits

10 ON CONTROLS / 20 ON PUMP / 20 ON 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 CONTROLS / 20 ON PUMP / 20 ON 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.

EDW-WD-DAX-508
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