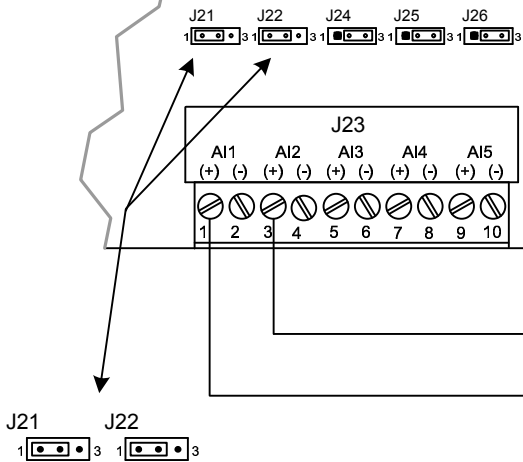


**NOTES:**

1. **WARNING:** This drawing does not illustrate completely the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the Control Drawing referenced on the product's name tag and national and local codes.
2. Software for Plunger Lift Valve Control is included with the XFC. Consult the XFC User Manual to set-up and operate:

*XFC-Series Flash  
IEC Advanced  
IEC w/Safety  
Turner Curve*

The Jumpers J5, J11, J9 & J12 are Debounce On/Off selections for Digital Inputs on J8 (For DIGITAL I/O "A", those are Pins 5 & 6 and 7 & 8, respectively). For this configuration, Enable these pins by setting the jumpers for J5 and J11, Pin 2 to Pin 3, as shown above.

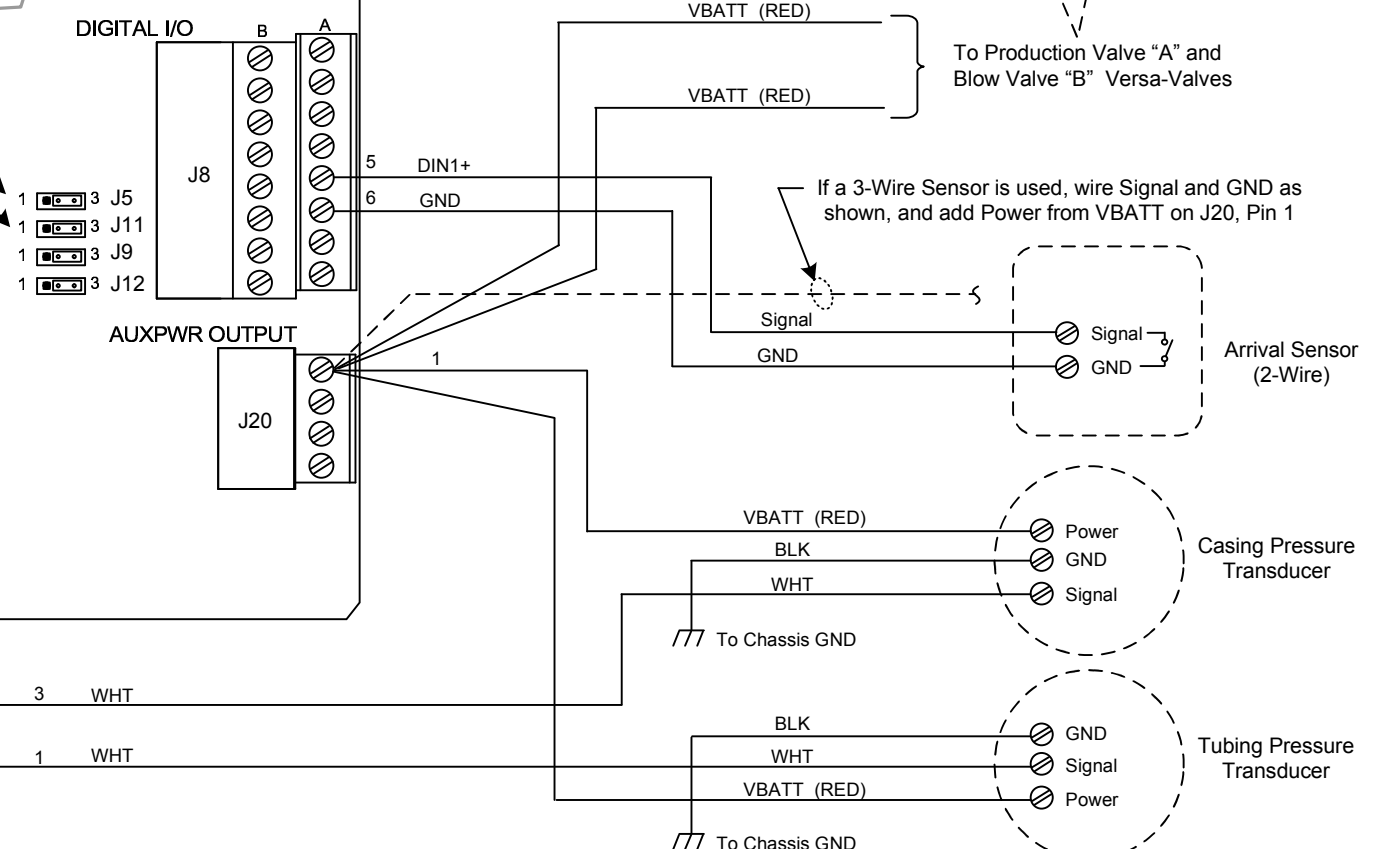


The Jumpers J21, J22, J24, J25 & J26 are selections for Analog Input Pairs on J23 (Those are 1&2, 3&4, 5&6, 7&8 and 9&10, respectively).

Setting the jumpers Pin-1 to Pin-2 = 0-20mA  
Setting the jumpers Pin-2 to Pin-3 = 0-10V.

Any of the pairs may be selected for Signal Input (+). In this instance, the Transducer uses the AIs set to 0-20mA on Pin-1 of J23; Jumper J21, Pin-1 to Pin-2, as shown.

XRC Board  
2100355



A TFIO Module is required to manage Plunger Lift Valve Controls with an XRC. For wiring Production Valve "A" and Blow Valve "B" to the Combo IO/VC INTF TFIO, SEE SHEET 2.

**XRC TO CASING PRESSURE & TUBING PRESSURE TRANSDUCERS  
&  
ARRIVAL SENSOR**

REF: N/A

<b>ABB</b>	TOTALFLOW Products	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
		D21576	UD	PLUNGER LIFT VALVE CONTROL FOR XRC	2102985	AB	1 OF 2

NOTES, continued:

3. Maximum Source and Sink current to valve actuator is 2 amps. (18 ga. wire suggested)
4. Jumpers on J4 must also handle 2 amps. (18 ga. wire suggested)
5. If valve direction is backwards, swap actuator wires coming to J4 terminals 2 & 4.
6. 'Local Lockout' activated by closed contact.
7. 'External Event' activated by closed contact.

**Configuration 1**  
(2-Wire)

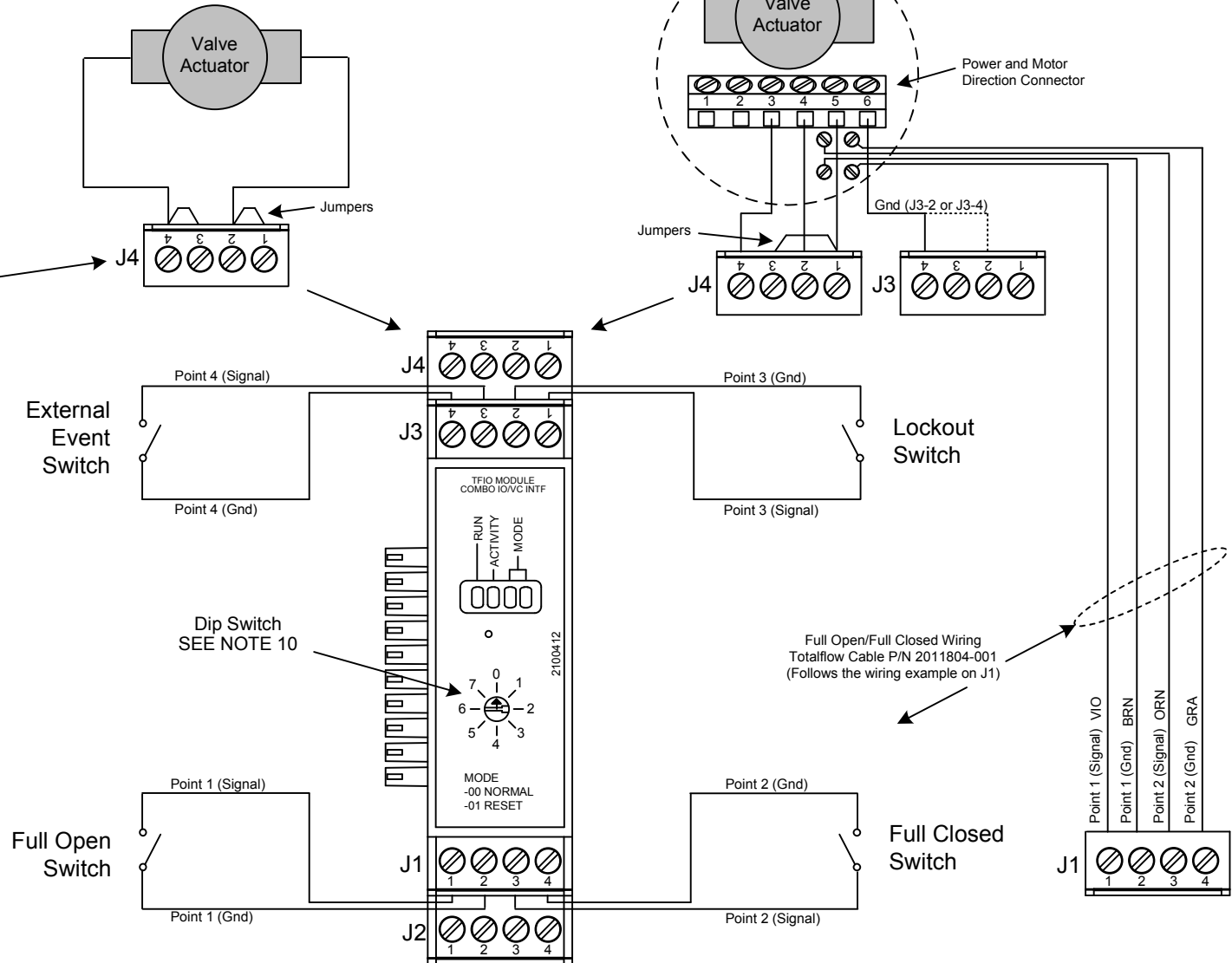
ControlAir      Valcon  
Worcester      Jamesbury  
Ledeon          Foxboro / Jordan

**Configuration 2**  
(4-Wire)

Fairchild

Due to the number of actuators supported by Configuration 1, individual terminations are not shown.

These Valves may have Contact Closure Wiring for Full Open and Full Closed settings. If that is the case, follow the wiring example shown on J1.



8. LED Indicators:

- Run LED – Blinking indicates on-board PIC running.
- Activity LED – Blinking indicates buss activity.
- Mode LED – 00 = Normal 01 = Reset

9. LED Operation:

- Register 0.7.7 = 0 – Power Save Mode (LEDs off when MMI disconnected)
- Register 0.7.7 = 1 – LEDs on all the time.

10. Dip Switch factory default address is set at 0. If another COMBO IO/VC INTF TFIO is added, move that Dip Switch setting to 1. If more are added, use the next address in line for each.

Changing the address applies only to TFIOs of their own type, and not TFIOs of another type; those would also start at 0 and add new address of their own.

TIP: While 0 is recommended for the first one, any address can be used (But keep in mind the original config files in our software are built with this address and factory tests will look for it).

TFIO MODULE (COMBO IO/VC) DIGITAL VALVE CONTROL

REF: 2012927-WI

<b>ABB</b> TOTALFLOW Products	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
	D21576	UD	PLUNGER LIFT VALVE CONTROL FOR XRC	2102985	AB	2 OF 2