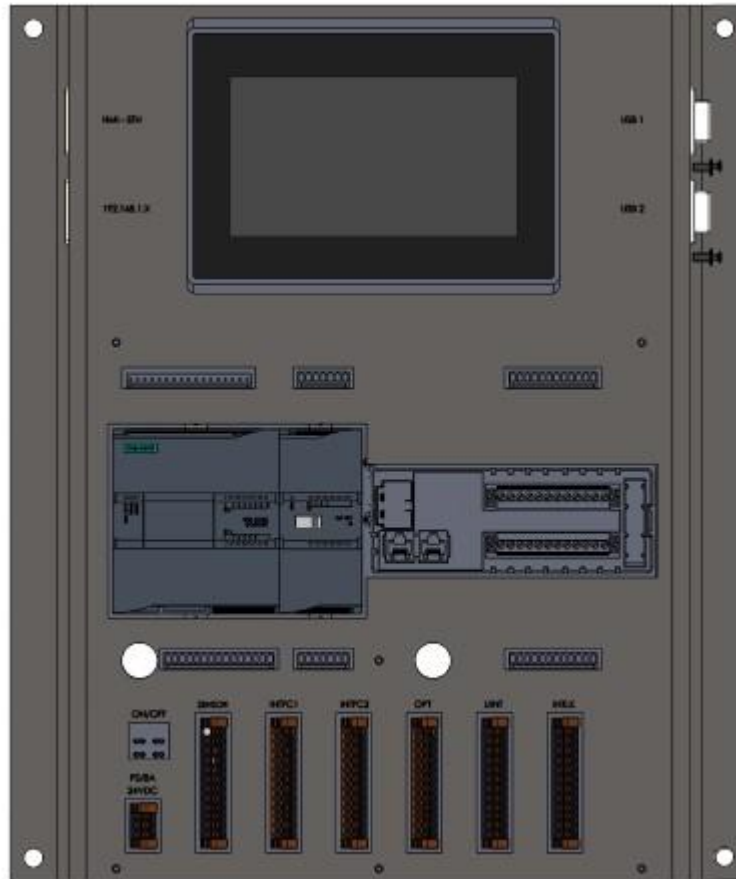




ADDENDUM – Integration Control Panel & Interface Box



Designed and Built by:

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Contents

General – This addendum is a supplement to the Cryodoser Flex Pack Premier Product Manual. This document describes the Chart Integration Panel and Interface box and provides information for connection between the panel, Interface box, and the filler system.

For all other information regarding the Pack Premier System, refer to the accompanying documents; Part numbers; 15965, DOCUMENT - ERRATA SHEET, 15968, PRODUCT MANUAL - PACK PREMIER and 15990, ADDENDUM - CRYO FLUIDS 15963, Pack Premier Controller.

The control panel consists of the main HMI display, PLC, I/O module, and connectors for interface with the filling system components

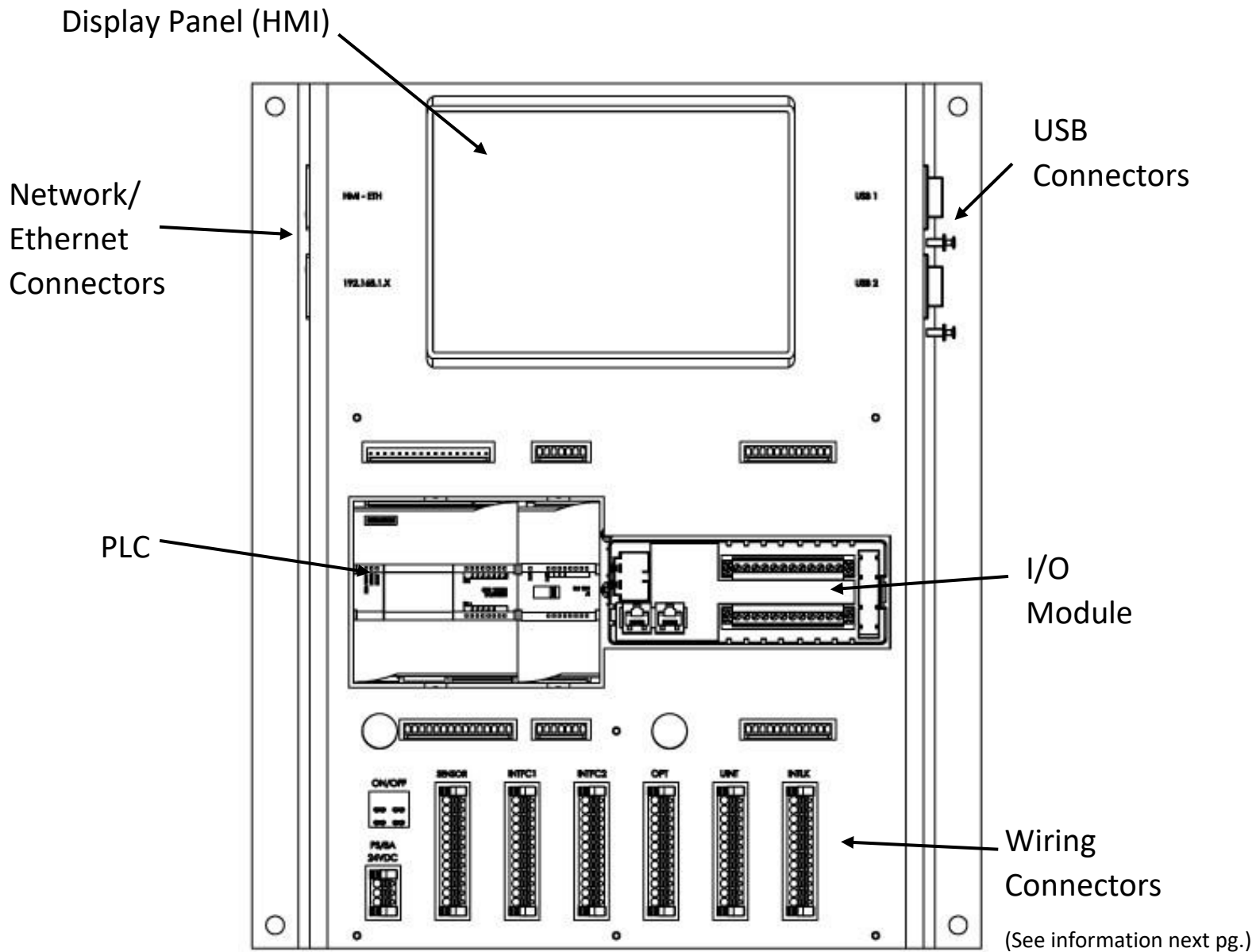


Fig. 1 Control Panel front view

Wiring Connectors on the control panel are as follows:

1. **Sensor**- This connector is used to enable user to provide input signals to the dosing system including; encoder input (2x), 1-1 timing sensor input, and a container detect signal.
2. **INTFC1**- Connection from Interface box
3. **INTFC2**- Connection from Interface box
4. **OPT**- This interface is provided to allow user to install two optional system tools; a dome light that communicates system status, and a illuminated dose enable/disable button.
5. **UINT**- This is an optional User Interface – Provides capability to monitor system remotely including warnings, system fault, or system ready signal.
6. **INTLK**- This is an optional User Interlock – Provides capability to enable safety mechanism based on user preference.

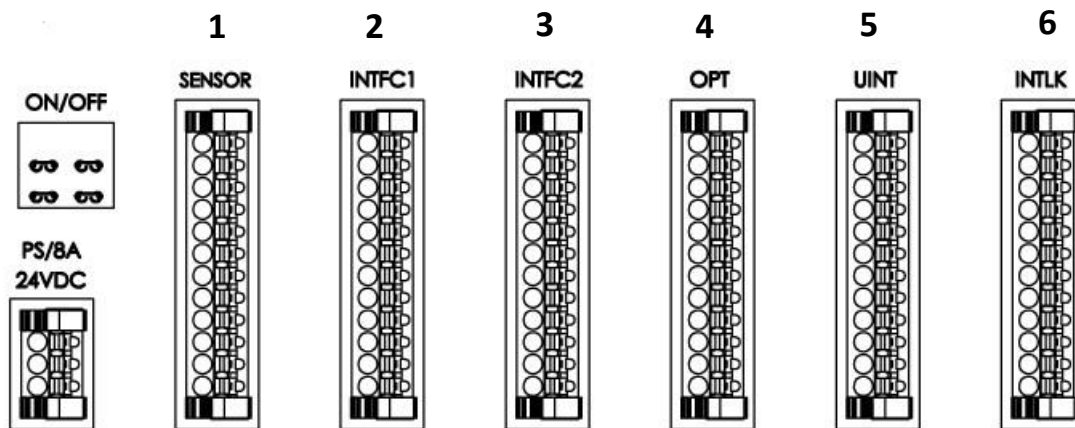


Fig. 2 – Control Box connectors

The Interface box provides the entry point for nitrogen gas to activate the inlet actuator and to purge the dosing body. Pressure tubes are on the interface box are used to measure the liquid level in the dosing body and to open and close the inlet actuator. The Interface box also has electrical connections to communicate with the Control Panel and Actuator.

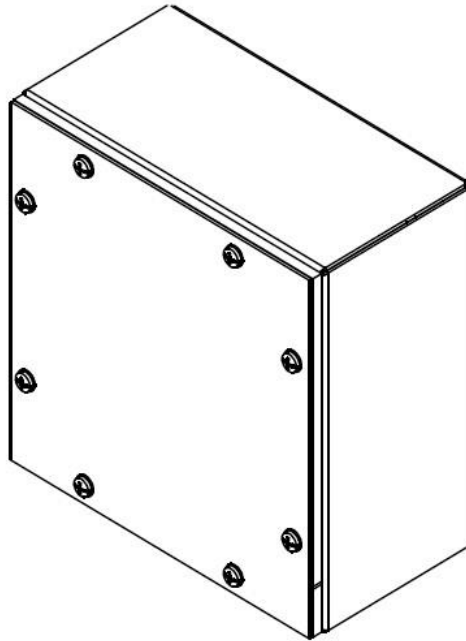


Fig. 3 – Interface Box orthographic

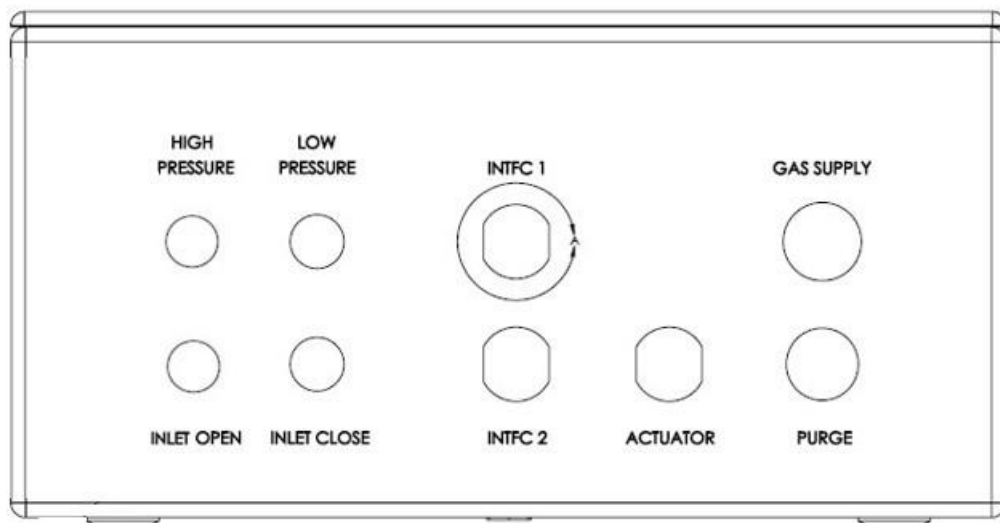


Fig. 4 – Interface Box, bottom view

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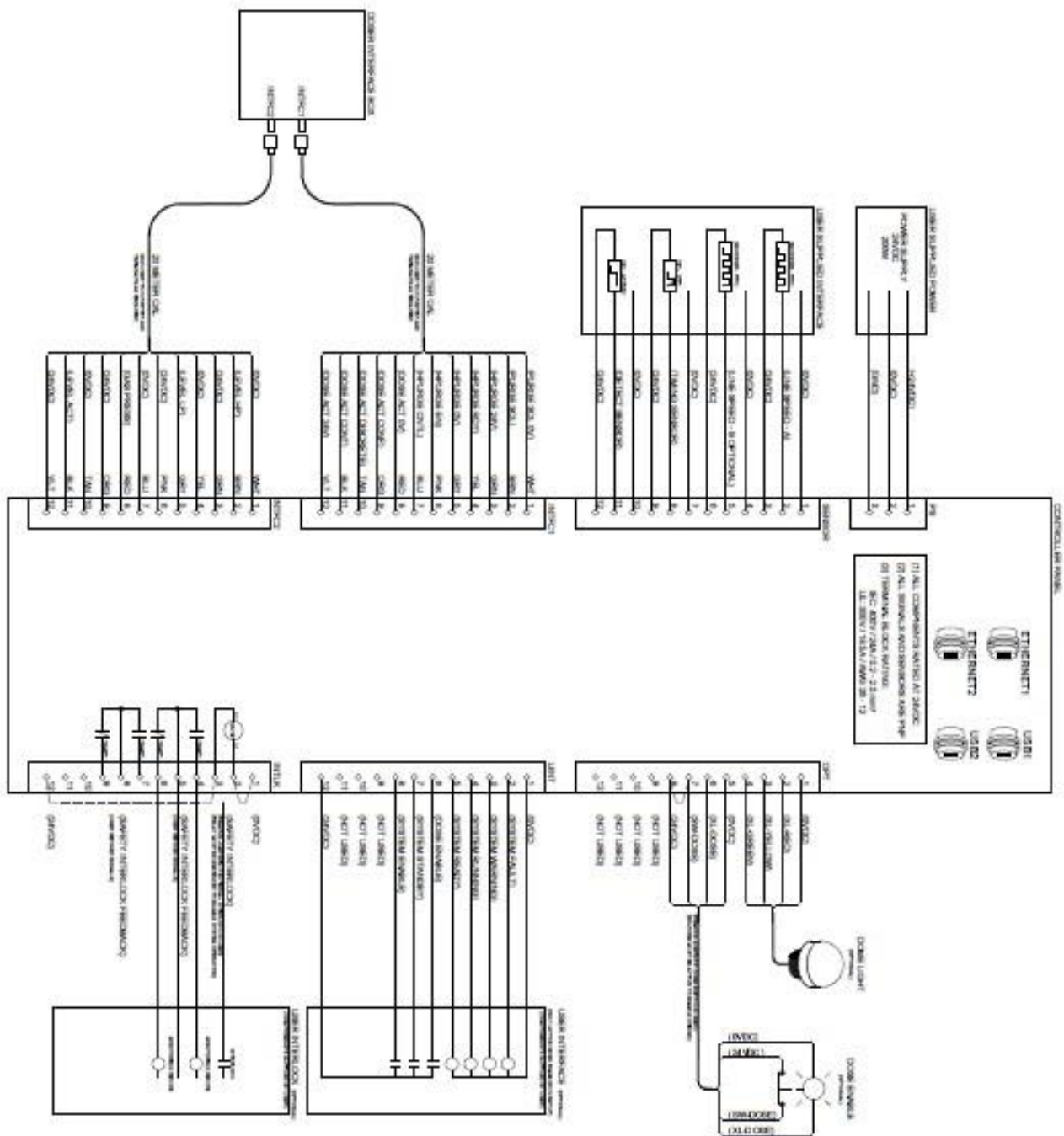


Fig. 5 User Interface Schematic Diagram

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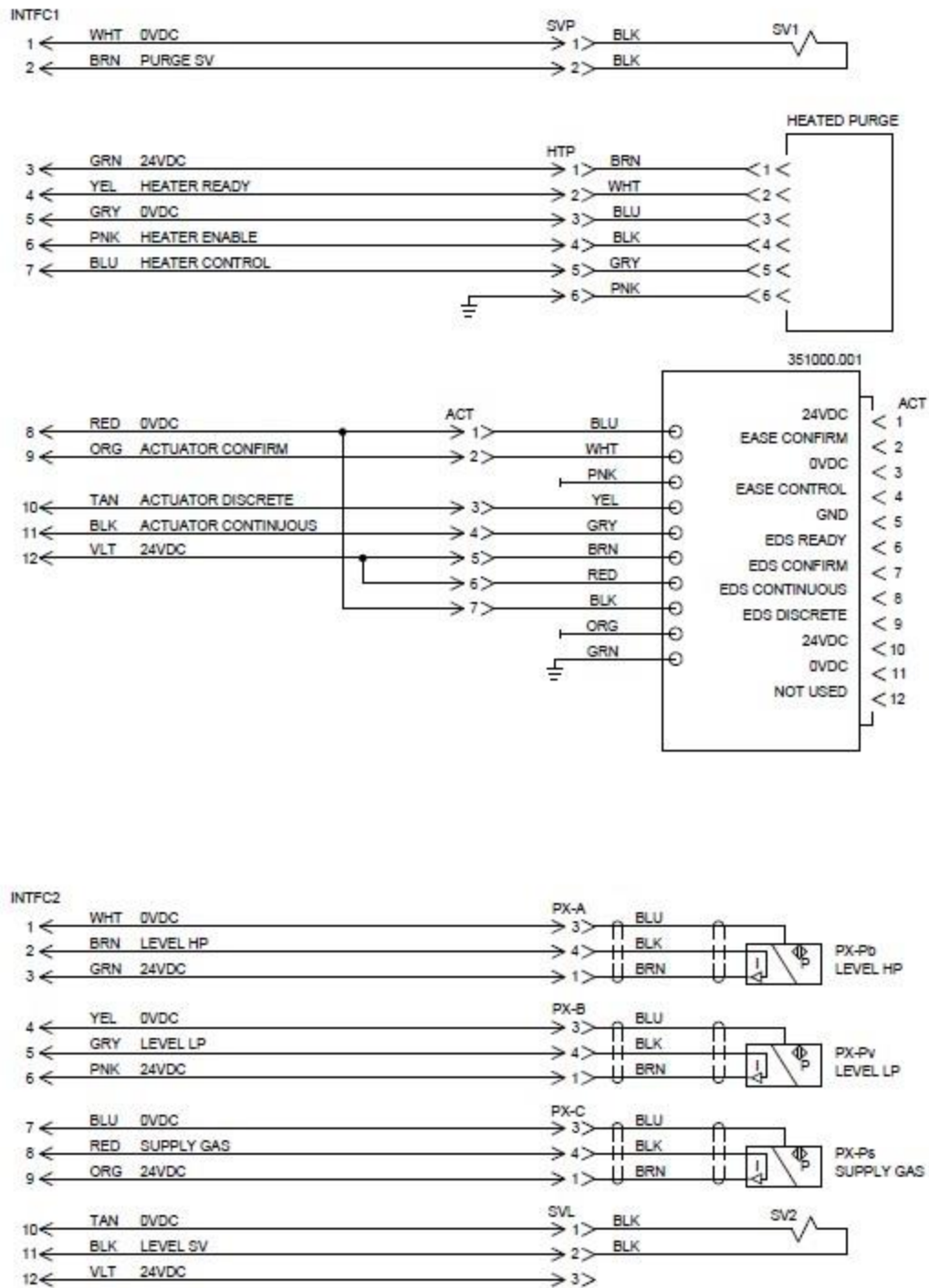


Fig. 6. Interface Box Schematic Diagram

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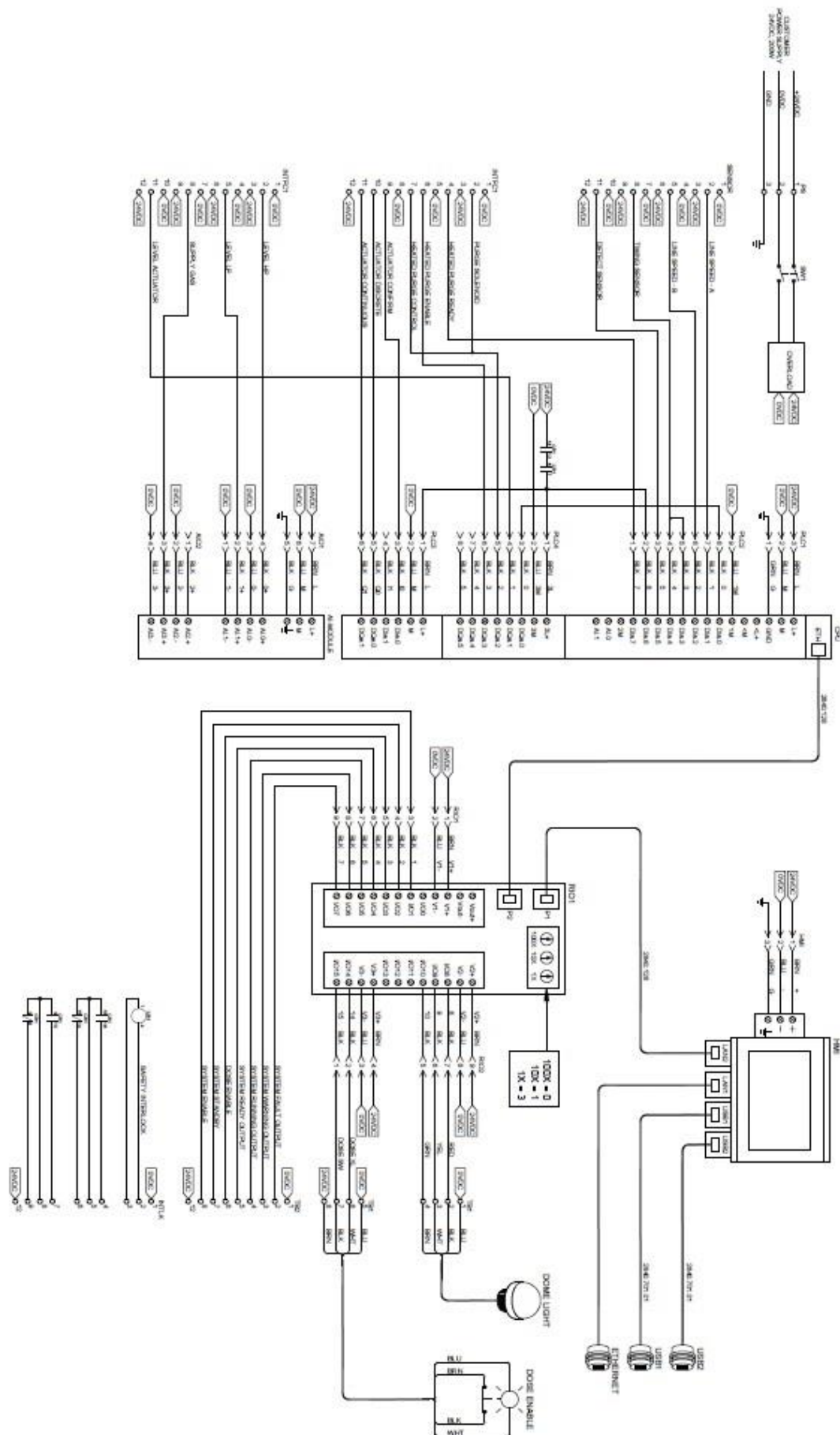


Fig. 7 Control Panel Schematic Diagram