

PANEL CONTROL RIO

1. Description

Handles the remote I/O connections for various control functions within the system.

2. Functions

- Manages inputs/outputs to control subsystems (e.g., diverters, motors, sensors).
- Sends data to other control panels.

3. I/O and Signals

Signal Name	Type	Description	Panel
RIO_INPUT_1	DI	Input signal from sensor	PANEL_CONTROL_RIO
RIO_OUTPUT_1	DO	Output signal to actuator	PANEL_CONTROL_RIO
RIO_FEEDBACK_1	DI	Status feedback from I/O	PANEL_CONTROL_RIO

4. Interlocks & Safety

- Stops outputs if corresponding inputs fail.

5. Dependencies

- Communicates with other control panels (e.g., PANEL_CONTROL_SORTER, PANEL_VFD_APF35).

6. Alarms

Alarm ID	Condition	Message
A_RIO_01	I/O signal failure	"RIO Fault"

7. HMI / Operator Interaction

- I/O status displayed for operator review.
- Ability to reset or test I/O points.