**PANEL AIR COMPRESSOR**

**1. Description  
Controls pneumatic system for air-powered actuators.**

**2. Functions**

* **Maintains air pressure for pneumatic components.**

**3. I/O and Signals**

|  |  |  |  |
| --- | --- | --- | --- |
| **Signal Name** | **Type** | **Description** | **Panel** |
| **AIR\_PRESS\_OK** | **DI** | **Air pressure good** | **PANEL\_CONTROL\_RIO** |
| **COMP\_RUN\_CMD** | **DO** | **Run compressor** | **PANEL\_CONTROL\_RIO** |

**4. Interlocks & Safety**

* **Low air disables all pneumatic actuators**

**5. Dependencies**

* **Connected to diverters and labeler if pneumatic**

**6. Alarms**

|  |  |  |
| --- | --- | --- |
| **Alarm ID** | **Condition** | **Message** |
| **A\_AIR\_01** | **Air pressure too low** | **"Air Supply Fault"** |

**7. HMI / Operator Interaction**

* **Air pressure reading**
* **Manual compressor override**