**PANEL SUBSYSTEM SCALE**

**1. Description  
Controls the weighing subsystem for product weight measurement.**

**2. Functions**

* **Measures the weight of products for sorting or validation.**

**3. I/O and Signals**

| **Signal Name** | **Type** | **Description** | **Panel** |
| --- | --- | --- | --- |
| **SCALE\_MEASURE\_CMD** | **DO** | **Trigger weighing process** | **PANEL\_CONTROL\_RIO** |
| **SCALE\_WEIGHT\_FB** | **DI** | **Feedback on measured weight** | **PANEL\_CONTROL\_RIO** |

**4. Interlocks & Safety**

* **Inhibits weighment if the item is not properly positioned.**

**5. Dependencies**

* **Dependent on PHOTO\_EYE\_CONF for item confirmation at scale.**

**6. Alarms**

| **Alarm ID** | **Condition** | **Message** |
| --- | --- | --- |
| **A\_SCALE\_01** | **Weight measurement failure** | **"Scale Fault"** |

**7. HMI / Operator Interaction**

* **Displays the weight of the item on HMI.**
* **Manual calibration and test mode available.**