

SOP: Denver Instrument PI 403 Balance Operation

Approvals:

Preparer: Jason McMillan

Date: 10JAN14

Reviewer: Dr. Margaret Bryans

Date: 11JAN14

1. Purpose:

1.1. Operation of Denver Instrument PI 403 Balance.

2. Scope:

2.1. Applies to the weight measurement of laboratory materials.

3. Responsibilities:

3.1. It is the responsibility of the course instructor/lab assistant to ensure that this SOP is performed as directed and to update the procedure when necessary.

3.2. It is the responsibility of the students/technicians to follow the SOP as described and to inform the instructor about any deviations or problems that may occur while performing the procedure.

4. References:

4.1. Denver Instrument PI 403 Balance Instruction Manual.

5. Definitions: N/A

6. Precautions: N/A

7. Materials:

7.1. Appropriate weighing container(s) such as a weigh boat, weigh paper, beaker, flask, bottle, etc.

8. Procedure:

8.1. Simple Weighing

8.1.1. Place weighing container on the balance weighing pan. Press the "TARE" button to zero the weight display.

8.1.2. **TARING** displayed on the screen indicates that the balance is waiting for the stable reading before taring.

8.1.3. The balance will read 0.0000 grams (or selected units to designated resolution) after successful taring.

8.1.4. When the reading is stable, the **Denver Instrument icon** appears in the top, left on the display. When unstable, a **U** appears.

8.1.5. Remove the weighing container. Load weighing container with material to be weighed. Place loaded weighing container on the weighing pan. Weight for the **Denver Instrument icon** to appear in the upper left-hand corner.

8.1.6. Record the weight and remove the loaded weighing container.

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9. Attachments:

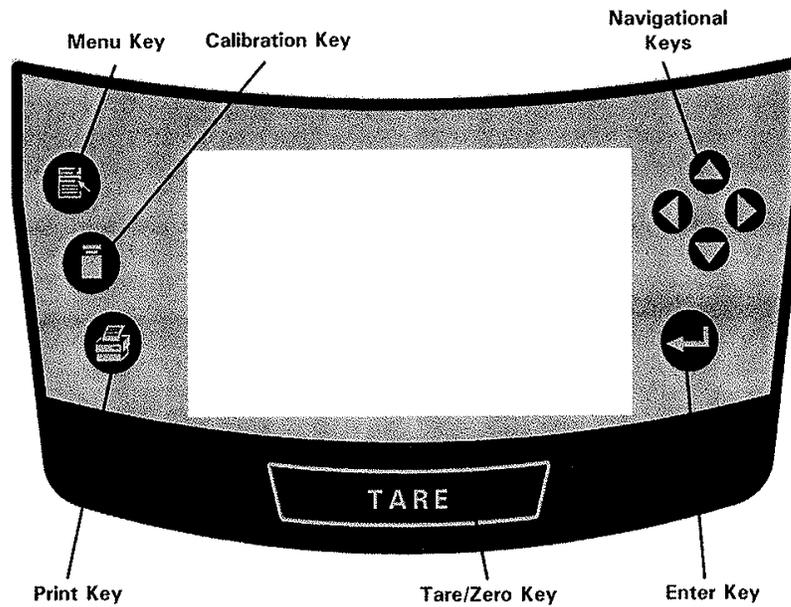


Figure 1: Denver Instrument PI 403
Denver Instrument PI 403 Manual

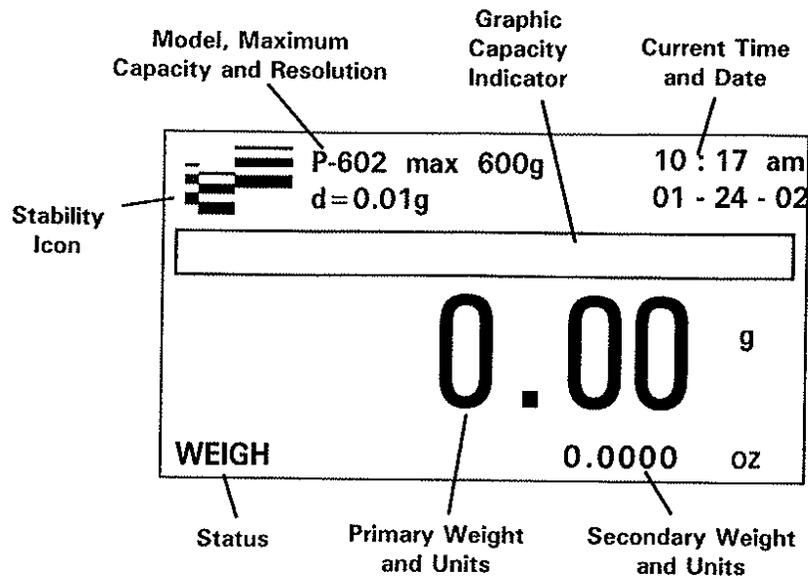


Figure 2: Denver Instrument PI 403 Display
Denver Instrument PI 403 Manual

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10. History:

<i>Revision Number</i>	<i>Effective Date</i>	<i>Preparer</i>	<i>Description of Change</i>
0	10JAN14	Jason McMillan	Initial release