User Guide

Digital Level Kit

p/n 74-107-002

Hanson

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74108012-B

Sales & Support

Congratulations on the purchase of your Digital Level Kit. Please feel free to contact us at any time if you have questions or technical issues requiring our assistance.

NOTICES

The information contained in this manual is subject to change without notice.

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Introduction

The Hanson Digital Level Kit includes:

- Digital Level (*see Figure 1—Digital Level*)
- Owner's Manual
- Vessel Adapter with Screws
- Case

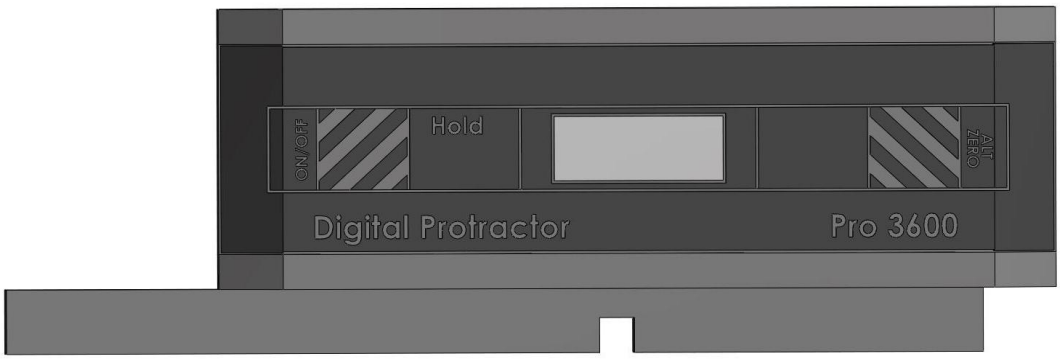

Figure 1—Digital Level

Adjusting Dissolution Tester Level

NOTE: *For leveling a dissolution tester, Hanson recommends using the* **bubble level** *supplied with the Validation Tool Kit (p/n 74-107-004). For more information, please refer to the Validation Tool Kit User Guide.*

To obtain a specific degree of inclination the bubble level cannot provide, use the **digital level**:

1. Calibrate the digital level at time of use according to the included owner's manual.
2. **Left to right inclination**: place the level on the front-center of the vessel plate with the display facing front.
3. Record the value.
4. **Front to back inclination**: place the level on the vessel plate at 90° from the front of the waterbath so the display faces left or right.
5. Record the value.

Shaft & Vessel Verticality (for ASTM qualifications)

To measure shaft verticality use the **digital level** as follows:

1. Calibrate the digital level at time of use according to the included owner's manual.
2. Place the notched side of the level against the shaft with the display facing front.
3. Record the value.
4. Rotate the level 90° around the shaft so the display faces left or right.
5. Record the value.

***NOTE**: ASTM does not have any specifications; however, not more than 0.5° from vertical is recommended.*

To measure vessel verticality:

1. Calibrate the digital level at time of use according to the included owner's manual.
2. Attach the **vessel adapter** to the digital level by screwing the adapter into place.
    a. Ensure the vessel adapter is seated flat against the side of the level. If it is not, remove it and reseat it before proceeding to step 3.
3. Place the level in the vessel with the adapter pressed against the side of the vessel with the display facing front.
4. Record the value.
5. Rotate the level 90° against the side of the vessel so the display faces left or right.
6. Record the value.

    ***NOTE**: The specification for vessels is not more than 1.0° from vertical measured at 2 points 90° apart, but not more than 0.5° is recommended.*

Trouble Shooting

If a vessel does not meet the vessel verticality specification:

- Recheck the vessel plate level and ensure the bushing ring is properly placed on the vessel plate.

If the vessel still does not meet the vessel verticality specification:

- Replace the vessel.

Calibration

The Digital Level Kit is supplied in a protective case designed to maintain the accuracy of its precision components. After each use, these components should be immediately returned to the case for storage.

The digital level calibration must be verified at time of use. To do this, perform the **accuracy test** as stated in the owner's manual. Should the accuracy test fail, perform the **superset** procedure located in the owner's manual.