

TAP DENSITY TESTER MANUAL**1. INSTALLATION**

1.1 Install tapping assembly

1.1.1 Take a glass cylinder usually 250mL, put on the yellow pad.
Volume of the cylinder is as per standard.

1.1.2 Put on AI washer

1.1.3 Put the white pad on bottom of the cylinder

1.1.4 Screw in please not too tight



1.2 Tap height

1.2.1 Two tap height for selection

1.2.2 One is 3mm(popular), the other is 14mm. Use 3mm if standard is not clear or ask HMKTest for suggestions.

1.2.3 Two tapping station are available in order to test together.

1.3 Connection

1.3.1 Connet power cable.

1.3.2 Connect balance

**2. LOGIN**

2.1 Login as Admin

2.1.1 Touch LOGIN NAME-Admin

2.1.2 Touch PASSWORD

2.1.3 Input PASSWORD ****

2.2 Login as User

2.2.1 Touch LOGIN NAME-Admin

2.2.2 Touch PASSWORD

2.2.3 Input PASSWORD ****

3. SETUP

2.1 Check

2.1.1 Touch Check, observe the status, both should be OK,

Check connection points if it shows NOK.

2.1.2 If both are OK, continue setup, if NOK persists after check on the connection, please contact QAQC LAB

2.2 Motor

2.2.1 Touch Motor

2.2.2 MODE. Touch once to show one mode and touch twice to use the other mode.

2.2.3 COUNT. Test by count is popular, here user need to set the number of count. Touch drop-down arrow to select among default count, touch Count to input. This parameter is also involved with standards, if standard not available please ask HMKTest for suggestions.

2.2.4 RPM. It is the speed of the motor, i.e. revolutions per minute. Touch drop-down arrow to select among default rpm, touch RPM to input.

2.2.5 TIME. If TIME mode is selected, operator inputs time here, the unit is second.

2.2.6 HEIGHT. Touch once to show one height, touch twice to show the other. It is to show on the test report.

2.3 Sample

2.3.1 NO. Touch to input No of test.

2.3.2 WEIGHT. Touch to input sample weight. If optional balance is purchased, operator can obtain weight in Work-BALANCE as well.

2.3.3 V_0 . Touch to input volume before tapping.

2.3.4 DATE. Touch to modify the date, it is only open to Admin

4. Work

3.1 Touch Work to open.

3.2 V_0 . It should be input in Sample, if not, input volume before tapping

3.3 START. Touch to start test. Analyzer works and time counts down. The machine stops automatically after test.

3.4 STOP. If the operator wants to stop during the test, touch STOP

5. VOLUME AFTER TAP V_F

Touch V_F to input volume after tapping

6. CALCULATION

5.1 T.D. Touch it to show tapped density.

5.2 C.I. Touch it to show compressibility index.

5.3 H.R. Touch it to show Hausner Ratio.

7. DATA

6.1 Touch Data-SAVE to save the current test results.

6.2 Touch DEL to delete

6.3 Touch NEXT to view records

Data is only open to Admin

8. PRINT

Touch PRINT to print the rest report.

MAINTENANCE AND INSTRUCTIONS

1. Put on some glycerin on the bottom of the tapping pin to reduce the friction
2. If the motor sticks, please stop the machine immediately. Kindly reduce the tapping height from 14mm to 3mm or reduce the frequency from 300 to 250. If both are mandatory in the standard, please use fewer sample.
3. Clean the touch screen before test.