

Calibration Procedure for FPT-FI Friction/Peel Tester

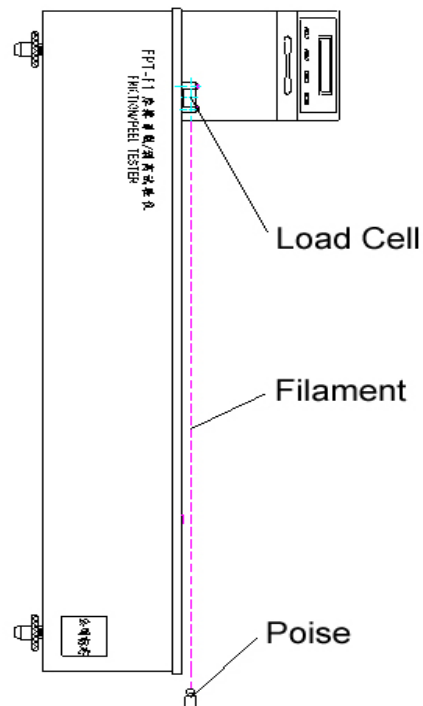
Current situation:

Force value deviates too much during test or verification.

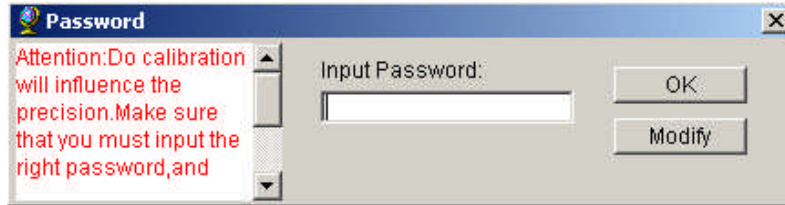
Troubleshooting:

- 1、 First of all, get M1 grade standard poise ready.
- 2、 Then remove all the attachments such as clamp and sled from the tester. Turn the tester to its right side carefully and make it stand upside vertically as shown in below figure. The tester must be placed vertically, otherwise obvious error will appear. **Take care!!! Keep the tester away from falling down during calibration process!!! Otherwise instrumental or personal damage is at the users' risk.**

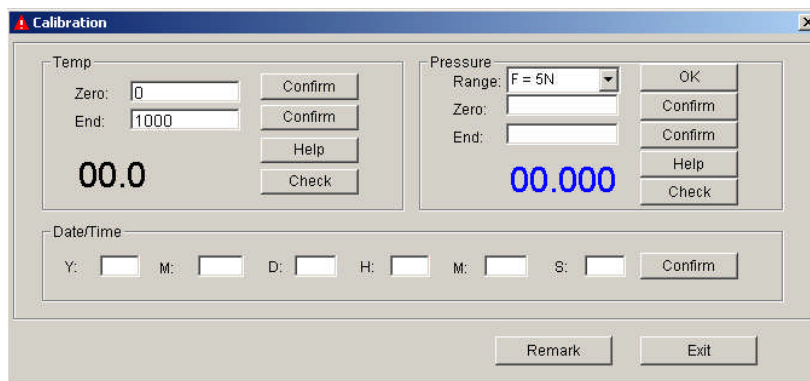
Note: The load cell adopted by the tester is of small force value with high precision. The calibration should be carried out in environment where there is no wind, no intense vibration or no intense electromagnetic interference.



- 3、 Click "System" menu and then click "Calibration", the following interface appears:



4. Input default password "labthink", and then press "Enter" key (not "OK" button) to get into calibration interface.



5. After checking the test range of load cell, select corresponding test range in "Range", and then click "OK" button. For example, the load cell is marked "10kg", then select "F=10N" and click "OK" button.
6. Open the electricity cover and make sure there's nothing on the load cell. Connect the filament with the load cell (the filament should be as thin as possible and no poise with it). Input "0" in "Zero" and click "Confirm" button behind it.
7. Click "Check" button to see if the force value 0.000 is displayed on below blue area. If not, please repeat the operation of 6 and 7.
8. Hang the 5N standard poise to the load cell with filament (The pendulous part of filament should be as short as possible). Do not let the poise be touched by anything, except the filament!! After the poise becomes stable, input 5000 in "End" and click "Confirm" behind it. **The calibration poise is not necessarily to be 5N, but it shouldn't be less than 10% of the test range of the load cell. A medium value is preferred.**
9. Click "Check" button to see if the force value is displayed within 4.975-5.025 on below blue area. If not, please repeat the operation from 6 to 9.
10. Take off the poise and immediately lay the tester horizontally. Users need not to worry about the fact that the displayed force value may not be 0.000 when the tester is laid aside horizontally. During test, controlling system will automatically deal with it to ensure the accuracy of test data.

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Remarks:

Provided that the malfunctions still exist after foregoing operations, please do not hesitate to contact after-sales service center of Labthink Instruments Co.,Ltd in time for further solution.

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