



WWW.FYICHINA.COM.CN

FANYUAN INSTRUMENT (HF) CO., LTD.
DOWELL SCIENCE AND TECHNOLOGY (HK) CO., LTD.
ADD: Tianyuan Road 9#, High-tech Zone, Hefei City, China Postal Code: 230088
TEL: +86-551-65232508
FAX: +86-551-65232507
Email: sales@hkdownell.com
Website: http://www.fyichina.com.cn

DWFA SERIES PENDULUM ARM DYNAMOMETER



Model No.

DWFA-I DWFA-II DWFA-III

Application:

Roller pressure dynamometer: It is used for measuring the drafting roller pressure of roving machine and spinning frame, drawing frame. It's the scientific findings of Textile Industrial Institute. It can measure the front, middle and back pressure, and it is easy to operate and accurate.

General Description:

CONSTRUCTION:

The roller pressure dynamometer consist of a specialized sensor and instrument. They are connected by cable. When we measure the pressure, the force measured will be placed on the sensor, then transform



WWW.FYICHINA.COM.CN

FANYUAN INSTRUMENT (HF) CO., LTD.
DOWELL SCIENCE AND TECHNOLOGY (HK) CO., LTD.

ADD: Tianyuan Road 9#, High-tech Zone, Hefei City, China Postal Code: 230088

TEL: +86-551-65232508

FAX: +86-551-65232507

Email: sales@hkdownell.com

Website: <http://www.fyichina.com.cn>

the force into voltage, and input the voltage into instrument. Through the A/D conversion, the pressure measured will be revealed on the LCD.



Sensor



Instrument

OPERATING:

1. Connected the sensor and instrument using the cabled yarn.
2. Turn on the dynamometer, and number revealed on the LCD. Press the undervoltage testing switch on the back of the instrument, if the indicator don't light, this show the voltage is not enough for operation, and you should charge the instrument. If the indicator is light, this suggest the voltage is enough for regular work, then you should charge the instrument for 15 minutes for stability of the instrument.
3. On condition that the number on the LCD isn't zero, we should make zero setting through zero setting locator.
4. Place the sensor in right place.
5. Press the pendulum arm, we can read the number revealed on LCD.
6. Open the pendulum arm, and take down the sensor.
7. Turn off the instrument, and place it in secure place after finishing the measurement.

Charging:

1. After finishing the charging, the instrument can work over 30 hours continuously. When the number on the LCD is unstable, you should charge the instrument.
2. You must put the power switch on charging location, and the indicator will light, when you charge the



instrument.

3. Charge the instrument for 14-16 hours continuously, then turn on the power, the indicator don't light at this moment. Press the undervoltage testing switch, if the indicator don't light, this show the charging is unfinished, and we should continue. if the indicator is light, this suggest the charing is finished,and it can work now.

NOTES:

1. One sensor match one instrument, so you can't change anyone of them, or will get inaccurate result.
2. It's precise electric instrument, so you should take good care of it. It can't suffer from strong viberation and strike, otherwise it will affect the accuracy of the testing.
3. When use the instrument, you should take the sensor or instrument rather than the cabled yarn.
4. If there are big difference in temperature and humidity between storage and working environment, you should put the instrument in the working environment over one hours, then operate it.

Features:

- Measure the pendulum arm pressure directly
- Simple construction, convenient for carrying
- One sensor match one instrument
- Dynamic measurement for roving machine and spinning frame, static measurement for drawing frame
- Easy to operate.

Technical Parameter:

Measuring range: 0-600N

Power : 0.15w for DWFA-I, 0.25w for DWFA-II, 0.25w for DWFA-III

Accuracy: $\cong 1\%F.S$

Working Temp.: 0-40 °C

Size(mm) : 120 X 60 X 165 for DWFA-I,
230 X 70 X 210 for DWFA-II,
230 X 70 X210 for DWFA-III



WWW.FYICHINA.COM.CN

**FANYUAN INSTRUMENT (HF) CO., LTD.
DOWELL SCIENCE AND TECHNOLOGY (HK) CO., LTD.**

ADD: Tianyuan Road 9#, High-tech Zone, Hefei City, China Postal Code: 230088

TEL: +86-551-65232508

FAX: +86-551-65232507

Email: sales@hkdownell.com

Website: <http://www.fyichina.com.cn>

Weight: 1.5kg for DWFA-I
2kg for DWFA-II
2.5kg for DWFA-III

Standard configuration:

No.	Item	Quantity
1	instrument	1pcs
2	Sensor	1pcs
3	Cabled yarn	1pcs
4	50*3 screwdriver	1pcs
5	specification	1pcs
6	Instrument set	1pcs