

# HZSF-702 SF6 Dew Point Tester





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## Notice

Honorable User:

When you first use our instrument, please pay attention to these below:

- ◆ For it will take a short time of self-checking after power on , please power on beforehand.
- ◆ At the beginning, open all needle valves, use flow valves which on the board to adjust flow. And when test complete, do the two steps conversely.
- ◆ Do not power off when the instrument at a continuous work, it can work continuously at least 10 hours by a high-capacity lithium battery.
- ◆ It may leave some air in the stream tube and gas room after non-use for a long term. The wet air will influence the test speed, because the sensor brush up against it before SF6 gas. We'll find more faster at the second test (3 to 5 minutes) .

Thank you for your cooperation.

## I.Feature And Specification

### 1. Feature

- Portable design: light、portable、convenient to use.
- Smart calibration: The sensor probe automatically calibrates to zero point to ensure the accuracy for each measurement;
- Rapid measurement: when start work,it takes a short time on measurement,and get the humidity value.
- Low gas consume: it just consume 2L (101.2kPa) in a test.
- Self-locking joint : the self-locking joint is imported from Germany,safe,reliable,leak-proof.
- Data memory: high-capacity design,save up to 200set test data.
- Legible display : dew point,Micro moisture ( ppm ) ,ambient temperature,ambient humidity,time,date,battery,etc,can be read from the LCD.
- RS232 port: can be connected with serial printer,carry on data printing.
- Accurate measurement: increases the temperature compensation function to ensure the accuracy of measurement results under various temperature conditions.
- Open calibration: This unit comes with a calibration function that allows you to calibrate the data without connecting to a computer.

### 2. Specification

dew point	Ranges	-80℃~+20℃
	Accuracy	±1℃ (-60℃~+20℃) or ±2℃ (-80℃~-60℃)
	Response time	63% takes 5s, 90% takes 45s / 63% takes 10s, 90% takes 240s
ambient temperature	-40℃~+80℃	
ambient humidity	0~100% RH	
LCD display	4.3 inch touch screen	

Power	AC 220V
	built-in rechargeable battery
Battery	charge 20 hours, operating 10 hours
weight	8kg
dimension	300 mm×150 mm×300mm
operating temperature	-30℃~+60℃

## II.Instruction Of Panel

### 1.Front Panel



Caution: You can adjust mount angle by pressing the two adjusting buttons on each side.

### 2. Back Panel



### **III.Operation**

#### **1. Connect To SF6 Electrical Equipment**

Connect the screw thread port to the switch joint, screw up it, then close the needle valve on the other head of the tube.

Connect the quick coupling of the test tube to the inlet of the meter.

Connect the vent tube to the outlet.

At last, screw up the switch joint to the SF6 electrical equipment.

#### **2. Initialization**

Power on the meter, it will take 5 seconds to initialize.

#### **3. Check The Battery**

The meter takes precedence for use alternating current.

when use DC power, view the battery on top right corner. when the battery indicates the electricity less than 20%, please recharge the equipment and then begin to use.

#### **4. Start**

Open all needle valves of stream tube, use flow valve adjust flow to about 0.5L/M, then begin to measure the dew point of SF6.

It takes 5-10 minutes for the first measurement, followed test will only need take 3-5 minutes for each device.

#### **5. Save Data**

After test, save the data and print it.

#### **6. Test Other Equipment**

When complete one set of equipment, close the needle valve of the stream tube and turn off flow valve. Take the adapter off from SF6 electrical equipment. If any equipment needs to be tested,

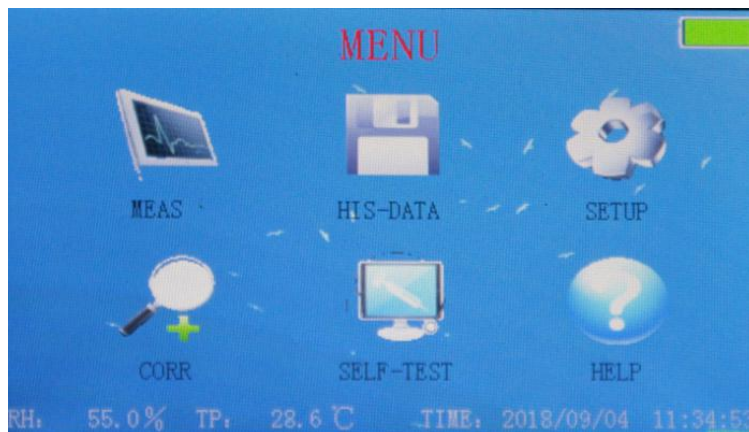
repeat steps above.

#### **7. Test Complete**

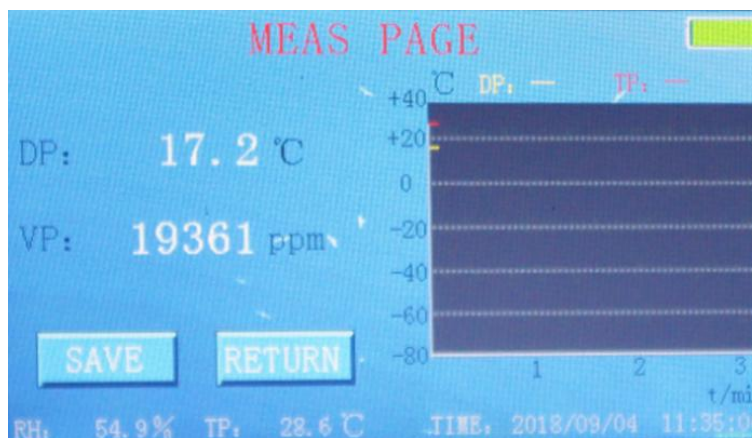
After all tests, Please turn off the equipment.

## IV.Menu

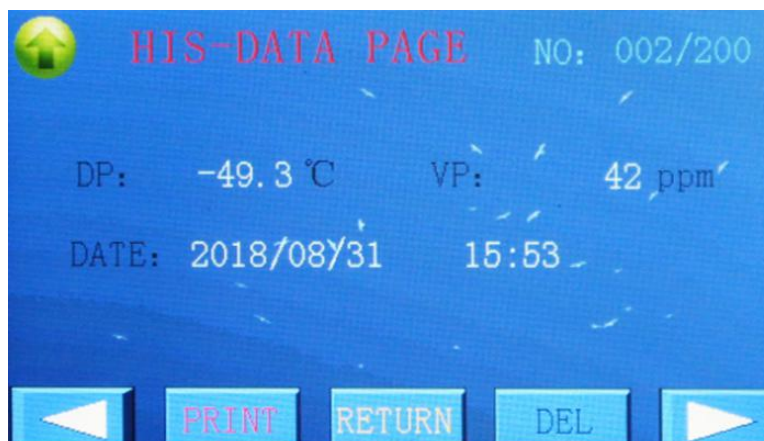
After the warm-up process is finished, the measurement state is entered, and the “return” button is used to enter the main menu. Please see as below picture showed:



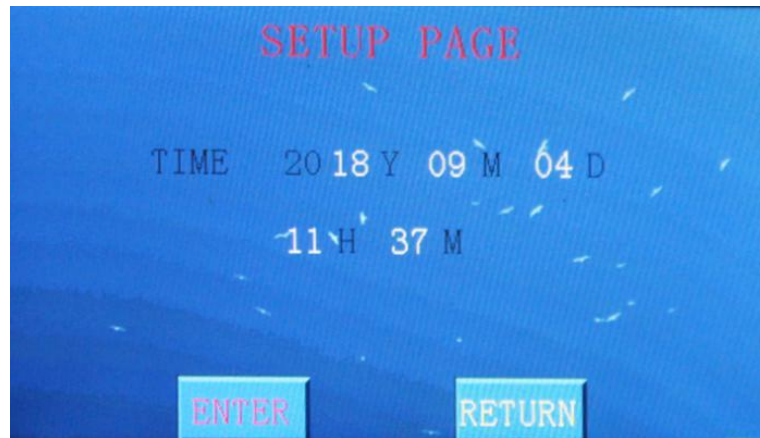
1. Data measurement: enter the measurement state, the number shows the current dew point value and the micro water value, and it shows the balance curve of temperature and dew point on the right side;



2. Historical data: you can view the previously saved data and print;



3. the basic settings: that is to enter the settings interface, you can set the time, date and other content;

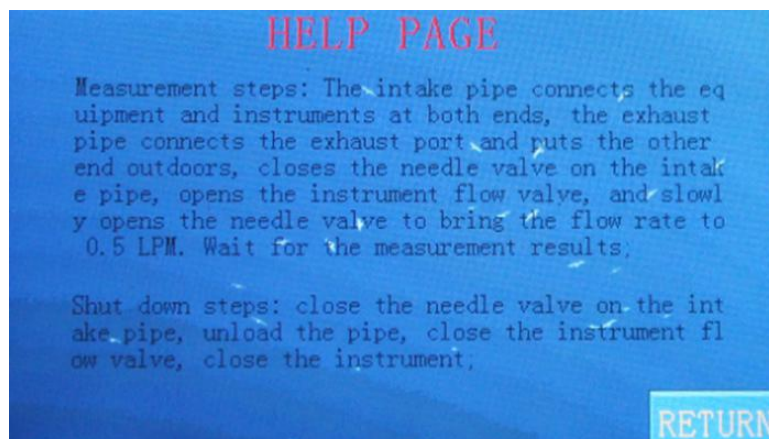


4. Data calibration: This function is only used when the measurement data is inaccurate or exceeds the calibration period. It is recommended for professional users.

5. Self-test: The instrument performs self-test on its own temperature and humidity sensor and dew point sensor;



6. Help: instructions



7. Password page: the user can set up password for this device



## V.Matters Need Attention

- The Equipment should place at a safe position, avoid fall and strenuous vibration.
- Do not meter corrosive gas.
- When adjust flow, turn the flow valve slowly, make the flow meter at about 0.5L/M.
- Charge battery before use the meter, connect the power line to a 220V socket, you needn't power on the meter, it will charge automatically, and needs more than 20 hours.

## VI.Packing List

No.	Item	Qty
1	Main engine	1
2	Gas Inlet pipe	1
3	Gas outlet pipe	1
4	Aluminum joints	8
5	Print paper	1
6	Power line	1