

Chilled Mirror Dew Point Instrument



DP29

Model: DP29-40 DP29-60 DP29-SF6

Applications

DP29 is a multifunctional, portable dew point humidity meter, especially designed for field use.

Typically apply to dew point measurement of SF₆ gas.

Based on the principle of chilled mirror.

- * Accurate measurement is guaranteed.
- * The system is stable, No need to repeatedly calibrated.
- * A built in electronic sample gas flow monitor.
- * Use RS-232 data output to connect with PC.

Features

DP29-40 is specifically designed for air dew point measurement. It is applicable to standard reference for electronic component durability, dew point control for firing furnaces, dew point control for fuel cell test system, etc.

DP29-SF6 is specially for the measurement of Sulfur Hexafluoride (SF₆).

DP29-60 is a standard type. It applies to standard reference for laboratory calibration, moisture control for ceramic firing furnaces, humidity control for thermo-hygrostat chamber.

Specifications

Model	DP29-40	DP29-60	DP29-SF6
Range	Under 0°C	-40°C	-50°C
	Under 10°C	-40°C	-50°C
	Under 20°C	-35°C	-45°C
	Under 35°C	-30°C	-40°C
Accuracy	$\leq \pm 0.2^\circ\text{C}$, $\pm 1\text{Digit}$		
Repeatability	$\leq \pm 0.1^\circ\text{C}$, $\pm 1\text{Digit}$		
Resolution	0.1°C		
Default Output	USB		
Optional Output	$\pm 10\text{mv}/^\circ\text{C}$ (0°C= 0mv) or 4mA-20mA		
Measurement Principle	Chilled Mirror		
Refrigeration	Semiconductor Refrigeration		
Inlet Flow	15L/h~60L/h, Generally 30L/h~40L/h		
Inlet Pressure	10mbar~10bar (1kpa~1Mpa)		
Response Time	2°C/Second (Maximum)		
Voltage	220VAC $\pm 10\%$, 50HZ/60HZ		

Pump	Optional Accessory
Mirror Check	Press the Mode Conversion Key to mirror check mode ('CH' on the display), and check manually.
Instrument Check	Press the Test Cooling Key, open the measurement probe, and check manually at mirror check mode.
Consumption	About 160 Watts
Temperature	0°C~50°C
Humidity	< 90%, No Condensation
Dimension	342(W)mmx140(H)mmx326(D) mm
Weight	About 7.22kg
Standard	Main Unit
Accessories	Inlet Tube (FEP, 3m), With Connector
	Instruction Manual
	Packaging Box
Optional Accessories	RS-232C Data Cable with Software