



DPS1 and DPS2 is a series of heated dew point hygrometers that can measure dew points up to 95 °C (203°F) and as low as -35 °C (-31°F). These integrated systems include microprocessor based electronics, a chilled mirror dew point sensor, a sample flow meter/valve, a 3 foot heated sample line, assorted tubing and fittings all contained in a heated, temperature controlled NEMA-4 enclosure



DPS Standard Features

DPS1

Operating temperature range:

0 to 105 °C (32 to 221°F)

Dew Point measuring range:

-35C to 95 °C (-31 to 203°F)

DPS2

Operating temperature range:

0 to 60 °C (32 to 122 °F)

Dew Point measuring range:

-35C to 55°C (-31 to 113°F)

- Power: 90-260VAC., 50- 400Hz, 40 watts
- Microprocessor controlled
- Eight digit alphanumeric LED display
- In line filter
- 3 foot heated hose
- User programmable temperature controller
- Automatic Balance control
- Alarm relay, form C
- Outputs 4-20mA
- Sample connection: ¼ female compression tube fitting
- Sample pressure: 0 to 150 psig max
- Measurement Accuracy: +/-0.25C (+/-0.45F)
- Applications: Fuel cell testing X , Industrial X Furnance

PHYSICAL

DPS1
 Dimensions: 24" x 16" x 6"
 Weight: 32lbs
 Mounting: Wall mounted Nema 4 standard

DPS2
 Dimensions: 14" x 12" x 6"
 Weight: 15lbs
 Mounting: Wall mounted Nema 4 standard

FUNCTIONALIT Y

Mirror Material Standard: Chrome
 Optional: Platinum

OPTIONS

Pressure Rating: 300psi
 Sample Flow: 0.5 to 5.0 SCFH (0.25 to 2.5L/min)
 Repeatability: +/- 0.05°C (0.9°F)

VP Vacuum pump 115Vac or 230Vac rated up to 122F/50C VPH
 Vacuum pump 115Vac or 230Vac rated up to 212F/100C
 PT Pressure transducer kit, live pressure
 RS RS232 output
 SA/.1 Enhanced dew point accuracy, 0.1C traceable to NIST (Certified)

CHILLED MIRROR DEW POINT SENSORS (Requir ed)

S-type

Depression @25°C (77°F)

S1	Single stage thermo electric cooler (TEC), flow through sensor	45°C (113°F)
S2	Two stage (TEC), flowthrough sensor	65°C (149°F)
S3	Three stage (TEC), flowthrough sensor	95°C (203°F)

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