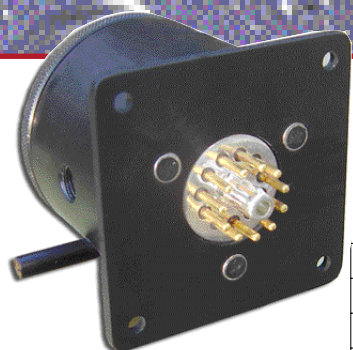


EdgeTech's family of chilled mirror (optical dew point) sensors use a fundamental principle when measuring a dew point and have excellent accuracy, stability and repeatability characteristics. They are NIST traceable and each system can perform an Automatic Balance Control (ABC) function which nulls the contaminants without effecting the continuous operation. EdgeTech sensors are known as the preferred dew point transfer standard in calibration labs.

S Series Chilled Mirror Dew Point Sensors



S Series Sensor
Standard Chassis
Mount
(Remote Mount Optional)

S-Type		Depression @25°C (77°F)
S1	Single-Stage Thermo Electric Cooler (TEC), flow through sensor	45°C (113°F)
S1P	High pressure (900PSIA) single stage (TEC), flow through sensor	45°C (113°F)
S2	Two-Stage (TEC), flow through sensor	65°C (149°F)
S2P	High Pressure (900PSIA) two stage (TEC), flow through sensor	65°C (149°F)
S2SC	Two-Stage (TEC), self cooling (fans), flow through sensor	73°C (163°F)
S3	Three-Stage (TEC), flow through sensor	95°C (203°F)
Options for the S Series sensor		
Model No.	Description	
RC	Remote mounting kit for the S Series sensor, standard length is 10 ft, special length needs, call the factory	
SA/0.1	0.1°C (32°F) special accuracy, traceable to NIST (Certified)	
SA/0.15	0.15°C (32°F) special accuracy, traceable to NIST (Certified)	

D Series Chilled Mirror Dew Point Sensors



D Series Sensor
Probe style

DS-Type		Depression @25°C (77°F)
D1	Single-Stage (TEC), Insertion probe sensor includes a 10ft cable	45°C (113°F)
D2	Two-Stage (TEC), Insertion probe sensor includes a 10ft cable	65°C (149°F)
Options for the D series sensor		
Model No.	Description	
PF	Pipe fitting brass: 1 1/4" NPT	
PF2	Pipe fitting brass: 1 1/4" NPT quick mount, rated for only 5psig	
SA/0.1	0.1°C (32°F) special accuracy, traceable to NIST (Certified)	
SA/0.15	0.15°C (32°F) special accuracy, traceable to NIST (Certified)	
SC1	Sample chamber, flow through, max pressure 100psig	

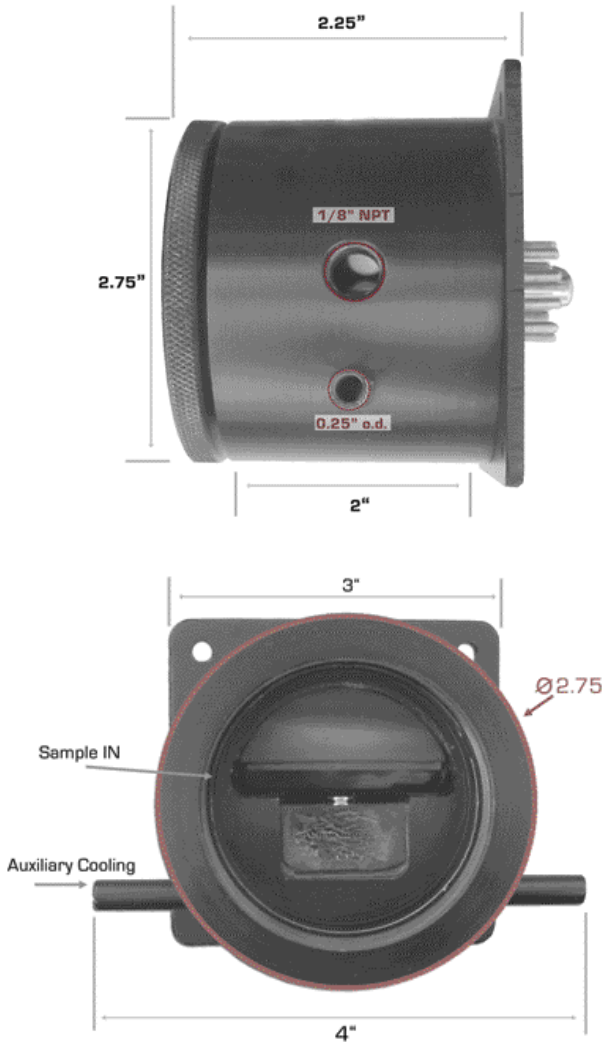
Specifications for S and D Series Sensors

Dew Point/Frost Point Accuracy	±0.2°C (0.36°F) Standard, ±0.15°C (0.27°F) Optional
Sensitivity	>0.03°C (0.05°F)
Sample Flow	0.5 to 5.0 SCFH (0.25 to 2.5L/min)
Pressure Rating	Vacuum to 300 PSIA for S Series sensor Vacuum to 50 PSIA for D Series sensor (using pressure fitting) (900 PSIA optional for S1 & S2 sensor)
Cooling Stages	Single-Stage (S1, D1, & S1P), Two-Stage (S2, D2, S2SC & S2P), Three-Stage (S3), of thermo electric cooling
Dew Point Measurement Range	-75°C to 100°C (-103 to 212°F)
Mirror Material	Chrome plated
Operating Temperature	-25° to 105°C (-13 to 221°F)
Repeatability	± 0.05°C (0.9°F)
Functionality	Requires EdgeTech monitor to function

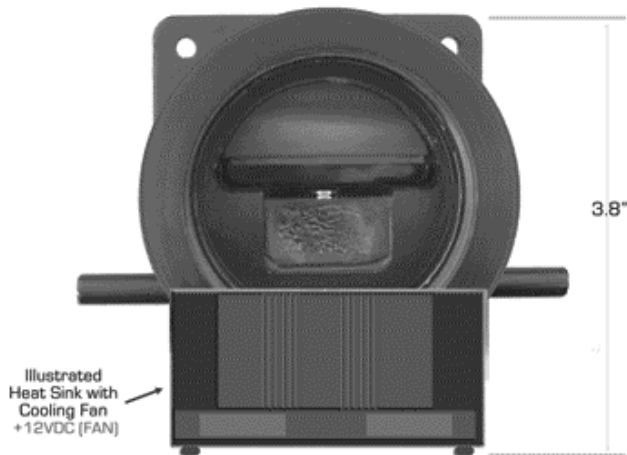
S-Type

Used for: Flow Through Applications

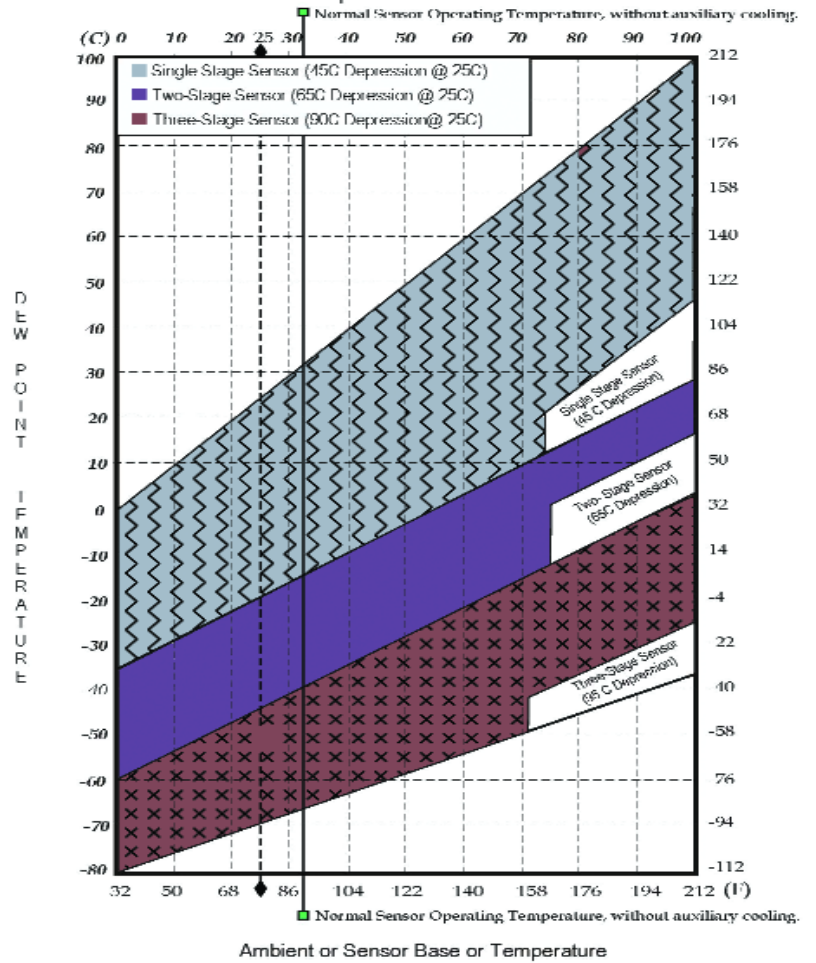
S1/S2



S2SC/S3



Sensor Depression Chart



D-Type

Used for: Ambient Environments and Insertion Probe Applications

D1/D2



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