



E100 Dew Point Transmitter



- Patented drift-free $\alpha\text{-Al}_2\text{O}_3/\text{SiO}_2$ hybrid dielectric humidity sensor
- Ultra-fast response time ensures safe and reliable monitoring
- Very low hysteresis makes it capable of giving reliable reading during rapid humidity change

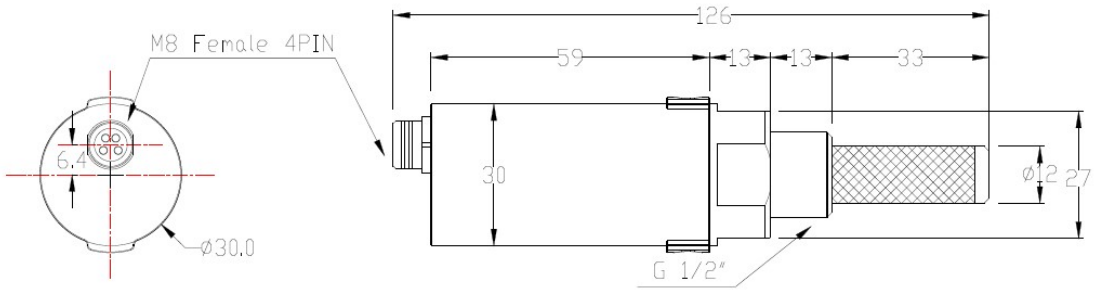
The ZDC Tech's patented $\alpha\text{-Al}_2\text{O}_3/\text{SiO}_2$ hybrid dielectric dew point sensor is the world's most advanced humidity sensor manufactured using the latest nanotechnology, featuring with long-term stability, fast response, and durability in extremely high/low humidity levels. It can be recovered even after exposure to liquid water! It can monitor both dew point and temperature with a temperature sensor provided. Proper use of the sensor can provide lifelong reliability without recalibration. The superior performance of the sensor makes it an ideal choice for many industrial applications.

Specifications	
Dew point range	-100 to +20°C dew point (0.013 ppm _v to 23,080 ppm _v)
Output signal	4 to 20mA (typical)
Supply voltage	9V to 28V DC
Accuracy	±2 °C dew point (> -60°C DP) ±3 °C dew point (-80 to -60°C DP)
Response Time (63% [90%] step change at 3L/min)	15 s [45 s] (Step: -60 to -20°C DP) 1 min [3 min] (Step: -20 to -60°C DP)
Response Time (Nitrogen purge)	30 min (From 15°C to -70°C DP at 3L/min)
Operating temperature	-30 to +50°C
Repeatability	0.5°C dew point
Operating pressure	5MPa
Pressure connection	G1/2" (Customized connection available)
Housing material	Stainless steel
Sensor protection	Stainless steel weaving filter with pore sizes of 8 μm
EMC	According to IEC 61326-1

Wire connection

Wire	Color	Connection
1	Brown	VDC+
2	White	TX0 (digital)
3	Blue	I+
4	Black	GND

Drawing



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