

Diborane 0.5ppm Sensor Data Sheet

Sensor response may vary slightly from sensor to sensor. All sensor cells can experience changes in output if exposed to rapidly changing temperature and humidity. Ensure sensors are located in areas not subject to changes in humidity and temperature.

All sensors are shipped pre-calibrated. Sensors should be gas calibrated if in use beyond 12 months.

Gas Measured	Diborane (B ₂ H ₆)
Sensor Module Part Number	CDS-7BBH86 (formerly CDS-7BBH80)
Sensor Type	Electrochemical
Range	0 – 0.5 ppm
Minimum Alarm Set Point	.05 ppm
Lower Detectable Limit	.025 ppm
Response Time	< 45 Seconds at 3-meter tubing length
Repeatability	+/-5%
Sensor Module Life Expectancy	3 years with annual calibration
Calibration Gas	PH ₃
Challenge Gas	PH ₃ , SiH ₄ , H ₂ S
Humidity Operating Range	30-85% RH (Steady State)
Temperature Operating Range	-5° to 40° Celsius (Steady State)
Warm Up Time	<5 Minutes
Storage Temperature	+5° to 25° Celsius

Cosmos sensors have excellent specificity to target gases. Even with this excellent specificity, sensors may have cross interferences to other gases, which can result in gas readings when exposed to non-target gases. Refer to "Interferences Gases Table" for this data.

For more information on sensors or pricing and availability, please contact DOD Technologies, Inc. at 815-788-5200