



# Electro Optical Components, Inc.

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SemeaTech introduces the upgraded Hydrogen Cyanide (HCN) sensor that is designed based on the new electrochemical technology. This upgrade addressed the HCN sensor's long-time performance issues. Please email us at [info@eoc-inc.com](mailto:info@eoc-inc.com) if you need samples to validate.

Items	New Version	Old Version
<b>Model/Part Number</b>	4HCN-50S (P/N: 064-1000-000) 4HCN-10S (P/N: 064-1100-000)	4HCN-50 (P/N: 064-0000-000)
<b>Comparison of Technical Specifications</b>		
1. Response time	T90 < 95 sec.	T90 < 120 sec.
2. Environmental	Excellent environmental dependency	Affected by low humidity environments
3. Resolution	<= 200ppb	<= 500ppb
<b>Possible impacts after replacement for your current version</b>		
1. Different Sensitivities (20°C)	0.065 ± 0.020 µA/ppm It is recommended to consider whether the instrument signal overflows at full scale concentration and whether the gain resistance <i>R<sub>gain</sub></i> needs to be adjusted.	0.050 ± 0.015 µA/ppm
2. Different Temperature Performances	Please click the link below that will direct you to the temperature performance in pdf format. <a href="https://www.semeatech.com/uploads/datasheet/4series/064-1000-000_EN.pdf">https://www.semeatech.com/uploads/datasheet/4series/064-1000-000_EN.pdf</a>	Please click the link below that will direct you to the temperature performance in pdf format. <a href="https://semeatech.cn/uploads/4Series/4HCN-50/temperature.png">https://semeatech.cn/uploads/4Series/4HCN-50/temperature.png</a>
	It is recommended to reconfirm the temperature compensation of the instrument.	
3. Different Cross Sensitivities	The new version is much more specific to the target gas except for SO2 and H2S. It is recommended to confirm the possible effects of interference gases in the applications.	
Note: The above only lists the main influences considered by SemeaTech.		
<b>Estimated replacement date: June 30, 2023</b>		