Electro Optical Components, Inc.
5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403
Toll Free: 855-EOC-6300
www.eoc-inc.com | info@eoc-inc.com

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Low Crosstalk Acetylene (C_2H_2) and Ethylene/Ethene (C_2H_4) Sensors

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The gas detection industry use ETO sensor to detect Acetylene and Ethylene (Ethene). The problem using ETO sensors is that they don't have good selectivity. They react to many other gases. See the comparison below.

If selectivity is an issue, the SemeaTech Acetylene (C_2H_2) and Ethylene / Ethene (C_2H_4) sensors are way better. No comparison in the technology.

Cross-Sensitivity Comparison between SemeaTech Acetylene C2H2 Sensor and a Typical ETO Sensor

	Concentration	SemeaTech C2H2 Crosstalk (ppm)	Typical ETO Sensor Crosstalk (ppm)
Carbon Monoxide	100	<1	125
Hydrogen Sulfide	50	<1	55
Sulfur Dioxide	10	<1	3
Nitric Oxide	50	<1	80
Formaldehyde	10	<1	6
Ammonia	50	0	5
Ethylene	100	<1	80
Vinyl Chloride	100	<1	130
Ethanol	200	<1	400
Hydrogen	400	<1	200