

ELECTROCHEMICAL SENSORS FOR TOXIC GASES (continued)

Formaldehyde (HCHO)

Sensor Type:	Electrochemical
Range:	0 to 10 ppm
Resolution:	0.01 ppm
Bias/Equilibration:	No bias/10 min. after installation
Temperature Range:	-4° F to 122° F (-20° C to 50° C)
Pressure Range:	Atmospheric ±10%
Operating Humidity:	15 to 90% RH non-condensing
Storage Life:	6 months in sealed container
Storage Temperature:	32° F to 68° F (0° C to 20° C)
Operating Life:	1 year in air
Warranty:	1 year from date of shipment
Calibration Gas:	9 ppm HCHO, or equivalent of 50 ppm CO, balance air
Part Number(s):	170-0078-000, C03-0982-000
Supported Instruments:	MultiRAE Family, ToxiRAE Pro

The Formaldehyde sensor has cross-sensitivity to other gases. Please refer to Technical Note 128 for list of compounds with positive and negative cross-sensitivities to HCHO sensor and the recommended method if use. Care should be taken to limit the use of HCHO sensor to the compounds discussed in TN128 with known cross-sensitivity behavior. Customers wishing to order instruments with any other sensor combination involving the HCHO sensor should contact RAE systems.

Cross-Interfering Compound	CO (Carbon Monoxide)	H ₂ (Hydrogen)	HCN (Hydrogen Cyanide)	H ₂ S (Hydrogen Sulfide)	C ₄ H ₈ (Isobutylene)	NO (Nitric Oxide)	PH ₃ (Phosphine)	SO ₂ (Sulfur Dioxide)
Cross-Interfering Compound Concentration	50 ppm	200 ppm	10 ppm	10 ppm	100 ppm	25 ppm	5 ppm	5 ppm
HCHO Sensor Cross-Sensitivity Level	Moderate positive	Minimal	Moderate positive	High positive	High positive	Slight positive	High positive	Moderate positive
HCHO Sensor Cross-Sensitivity Approximate Value	20%	1 to 2%	25%	150%+	100%+	10%	100%+	30%

Cross-Interfering Compound	Cl ₂ (Chlorine)	NO ₂ (Nitrogen Dioxide)
Cross-Interfering Compound Concentration	1 ppm	5 ppm
HCHO Sensor Cross-Sensitivity Level	Moderate negative	Moderate negative
HCHO Sensor Cross-Sensitivity Approximate Value	-20%	-20%

Authorized Distributor:
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