



# Cross-Sensitivity Data

Cross Sensitive Gas	Formula	Carbon Monoxide			Hydrogen Sulphide		Sulphur Dioxide		Nitric Oxide	Nitrogen Dioxide	Chlorine	Hydrogen	Hydrogen Cyanide	Hydrogen Chloride	Ammonia	Ozone
		7ETO #1	7E	7E/F	7HH	7H	7SH	7ST/F	7NT	7NDH	7CLH	7HYT	7HCN	7HL	7AM	7OZ
Acetaldehyde	CH <sub>3</sub> CHO	40														
Acetone	CH <sub>3</sub> COCH <sub>3</sub>	0														
Acetylene	C <sub>2</sub> H <sub>2</sub>	340	230	150	<1	280	140	<1	<1	<1					0	
Acrylonitrile	CH <sub>2</sub> =CHCN	75			0	0	0					15				
Ammonia	NH <sub>3</sub>	0	0	0	0	0	0	0	0	0	0	0	0	100	0	
Benzene	C <sub>6</sub> H <sub>6</sub>	0			0	0	0									
Bromine	Br <sub>2</sub>									55						
Butadiene	CH <sub>2</sub> =CH.CH=CH <sub>2</sub>	170														
Carbon disulphide	CS <sub>2</sub>	140			0											
Carbon monoxide	CO	100	100	100	<2	<2	<1.5	0	0	0	<5	<0.5	0	0	0	
Carbonyl sulphide	COS	135	270		0	0	1.3									
Chlorine	Cl <sub>2</sub>		-40	<10	-25	-20	-60	-35	0	90	100	0	-50	-15	-50	60
Dimethyl disulphide	(CH <sub>3</sub> ) <sub>2</sub> S <sub>2</sub>															
Dimethyl sulphide	(CH <sub>3</sub> ) <sub>2</sub> S	150			10	10	0									
Epichlorohydrin	C <sub>2</sub> H <sub>5</sub> OCl	50								0						
Ethanol	C <sub>2</sub> H <sub>5</sub> OH	180													0	
Ethyl acetate	CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub>	(15)														
Ethylene	C <sub>2</sub> H <sub>4</sub>	220	90	75	0	0	2	0	0	0	75	0.5		0	0	
Ethylene oxide	CH <sub>2</sub> CH <sub>2</sub> O	275														
Formaldehyde	HCHO	330			0.3	0	7.3	see note #2								
Hydrazine hydrate	NH <sub>2</sub> NH <sub>2</sub>				0	0	0.3							300		
Hydrogen	H <sub>2</sub>	<3	<60	<60	<0.15	<0.05	<0.5	<0.5	0	0	0	100	0	0.015	0	
Hydrogen bromide	HBr												65			
Hydrogen chloride	HCl		5	<3	0	0	0	<15	0	0	2		100	-5	0	
Hydrogen fluoride	HF												<2			
Hydrogen cyanide	HCN		40	<15	0	0	<45	<50	0	<1	0	25	100	30	0	
Hydrogen sulphide	H <sub>2</sub> S	565	350	<10	100	100	125	<1	35	-20	-20	<20		45	130	-15
Methanol	CH <sub>3</sub> OH	415			0											
Methylamine	CH <sub>3</sub> NH <sub>2</sub>	0			0									55		
Methyl bromide	C <sub>2</sub> H <sub>5</sub> Br	<5								0						
Methyl ethyl ketone	CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub>	6														
Methyl isocyanate	CH <sub>3</sub> NCO											0				
Methyl mercaptan	CH <sub>3</sub> SH	275			40	45	30									
Nitric oxide	NO	210	25	<30	<5	0	0	100	0	0	35	-10	0	20	0	
Nitrogen dioxide	NO <sub>2</sub>	25	-60	<15	-20	-20	-125	-100	20	100	120	0	-190	-10	0	80
Ozone	O <sub>3</sub>	-240		0	-30	-30	-125	-130	0	140	145	0	-200	-115	0	100
Phosphine	PH <sub>3</sub>		330		55		400	<2								
Phosgene	COCl <sub>2</sub>									0						
Sulphur dioxide	SO <sub>2</sub>	100	65	<10	15	<20	100	100	5	<-0.5	0	2	160	20	70	0
Sulphuryl fluoride							0			0						
Tetrachloroethylene	CCl <sub>2</sub> =CCl <sub>2</sub>	<5						<5								
Thiophane	C <sub>4</sub> H <sub>6</sub> S	45			0		0									
Thionyl chloride	SOCl <sub>2</sub>	(330)					210			0						
Toluene	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	20	50													
Trichloromethane	CHCl <sub>3</sub>	-														
Vinyl acetate	CH <sub>3</sub> COOCH=CH <sub>2</sub>	200														
Vinyl chloride	CH <sub>2</sub> =CHCl	200														

#1 Cross sensitivity figures for the 7ETO are given relative to Carbon Monoxide rather than to Ethylene Oxide. These figures are indicative of the relative response of a high output biased, unfiltered CO sensor.

The 7ETO has a cross-sensitivity to Carbon Monoxide of ≈40% (relative to its response to Ethylene Oxide)

#2 Formaldehyde may temporarily inhibit the operation of Nitric Oxide CiTiceLs

**This table is given as a guide only. No responsibility can be accepted for errors!**