

## 6.1.2 XNX EC Sensor Cross Sensitivity

Gas type	Part Number	Gas Type Applied	Concentration	Unit	Reading	Unit
O <sub>2</sub>	XNX-XS01SS	Carbon Dioxide	5	%vol	0.1	%vol (change O2 reading) per %vol CO
H <sub>2</sub> S (Low Low Range)	XNX-XSH3SS	Ammonia	50	ppm	0	ppm H <sub>2</sub> S
		Carbon Monoxide	100	ppm	<2	ppm H <sub>2</sub> S
		Carbon Dioxide	5000	ppm	0	ppm H <sub>2</sub> S
		Chlorine	0.5	ppm	0	ppm H <sub>2</sub> S
		Ethylene	100	ppm	0	ppm H <sub>2</sub> S
		Hydrogen	100	ppm	0	ppm H <sub>2</sub> S
		Hydrogen Sulfide	10	ppm	10	ppm H <sub>2</sub> S
		Nitrogen Monoxide	25	ppm	0	ppm H <sub>2</sub> S
		Nitrogen Dioxide	3	ppm	0	ppm H <sub>2</sub> S
		Sulfur Dioxide	2	ppm	0	ppm H <sub>2</sub> S
H <sub>2</sub> S (Low Range)	XNX-XSH1SS	Ammonia	50	ppm	0	ppm H <sub>2</sub> S
		Carbon Monoxide	100	ppm	<2	ppm H <sub>2</sub> S
		Carbon Dioxide	5000	ppm	0	ppm H <sub>2</sub> S
		Chlorine	0.5	ppm	0	ppm H <sub>2</sub> S
		Ethylene	100	ppm	0	ppm H <sub>2</sub> S
		Hydrogen	100	ppm	0	ppm H <sub>2</sub> S
		Hydrogen Sulfide	10	ppm	10	ppm H <sub>2</sub> S
		Nitrogen Monoxide	25	ppm	0	ppm H <sub>2</sub> S
		Nitrogen Dioxide	3	ppm	0	ppm H <sub>2</sub> S
		Sulfur Dioxide	2	ppm	0	ppm H <sub>2</sub> S

Gas type	Part Number	Gas Type Applied	Concentration	Unit	Reading	Unit
H <sub>2</sub> S (High Range)	XNX-XSH2SS	Ammonia	50	ppm	0	ppm H <sub>2</sub> S
		Carbon Monoxide	100	ppm	<2	ppm H <sub>2</sub> S
		Carbon Dioxide	5000	ppm	0	ppm H <sub>2</sub> S
		Chlorine	0.5	ppm	0	ppm H <sub>2</sub> S
		Ethylene	100	ppm	0	ppm H <sub>2</sub> S
		Hydrogen	100	ppm	0	ppm H <sub>2</sub> S
		Hydrogen Sulfide	10	ppm	10	ppm H <sub>2</sub> S
		Nitrogen Monoxide	25	ppm	0	ppm H <sub>2</sub> S
		Nitrogen Dioxide	3	ppm	0	ppm H <sub>2</sub> S
		Sulfur Dioxide	2	ppm	0	ppm H <sub>2</sub> S
CO	XNX-XSC1SS	Acetone	1000	ppm	0	ppm CO
		Acetylene	40	ppm	80	ppm CO
		Ammonia	100	ppm	0	ppm CO
		Carbon Monoxide	100	ppm	100	ppm CO
		Chlorine	2	ppm	0	ppm CO
		Ethanol	2000	ppm	3	ppm CO
		Ethylene	100	ppm	85	ppm CO
		Hydrogen	100	ppm	20	ppm CO
		Hydrogen Sulfide	25	ppm	0	ppm CO
		Iso-Propanol	200	ppm	0	ppm CO
		Nitrogen Monoxide	50	ppm	8	ppm CO
		Nitrogen Dioxide	800	ppm	20	ppm CO
		Sulfur Dioxide	50	ppm	0.5	ppm CO
SO <sub>2</sub> (Low Range)	XNX-XSS1SS	Carbon Monoxide	300	ppm	<3	ppm 4S
		Hydrogen Sulfide	15	ppm	0	ppm 4S
		Nitrogen Monoxide	35	ppm	0	ppm 4S
		Nitrogen Dioxide	5	ppm	~-5	ppm 4S

Gas type	Part Number	Gas Type Applied	Concentration	Unit	Reading	Unit
<b>SO<sub>2</sub> (Low Range)</b>	XNX-XSS2SS	Carbon Monoxide	300	ppm	<3	ppm 4S
		Hydrogen Sulfide	15	ppm	0	ppm 4S
		Nitrogen Monoxide	35	ppm	0	ppm 4S
		Nitrogen Dioxide	5	ppm	~-5	ppm 4S
<b>NH<sub>3</sub> (Low Range)</b>	XNX-XSA1SS	Alcohols	1000	ppm	0	ppm 3E 100 SE
		Carbon Dioxide	5000	ppm	0	ppm 3E 100 SE
		Carbon Monoxide	100	ppm	0	ppm 3E 100 SE
		Hydrocarbons		% range	0	ppm 3E 100 SE
		Hydrogen	10000	ppm	0	ppm 3E 100 SE
		Hydrogen Sulfide	20	ppm	2	ppm 3E 100 SE
<b>NH<sub>3</sub> (High Range)</b>	XNX-XSA2SS	Alcohols	1000	ppm	0	ppm 3E 1000 SE
		Carbon Monoxide	100	ppm	0	ppm 3E 1000 SE
		Chlorine	5	ppm	0	ppm 3E 1000 SE
		Nitrogen Dioxide	10	ppm	0	ppm 3E 1000 SE
		Sulfur Dioxide	20	ppm	-40	ppm 3E 1000 SE
		Hydrogen	3000	ppm	0	ppm 3E 1000 SE
		Hydrogen Sulfide	20	ppm	20	ppm 3E 1000 SE
<b>Cl<sub>2</sub> (Low Range)</b>	XNX-XSL2SS	Carbon Dioxide	20000	ppm	0	ppm Cl <sub>2</sub>
		Hydrogen Chloride	9	ppm	1.25	ppm Cl <sub>2</sub>
		Hydrogen Sulfide	25	ppm	-16.3	ppm Cl <sub>2</sub>
		Nitrogen Dioxide	50	ppm	1.25 (transient)	ppm Cl <sub>2</sub>
		Sulfur Dioxide	50	ppm	9.1	ppm Cl <sub>2</sub>
<b>Cl<sub>2</sub> (High Range)</b>	XNX-XSL1SS	Carbon Dioxide	20000	ppm	0	ppm Cl <sub>2</sub>
		Hydrogen Chloride	9	ppm	1.25	ppm Cl <sub>2</sub>
		Hydrogen Sulfide	25	ppm	-16.3	ppm Cl <sub>2</sub>
		Nitrogen Dioxide	50	ppm	1.25 (transient)	ppm Cl <sub>2</sub>
		Sulfur Dioxide	50	ppm	9.1	ppm Cl <sub>2</sub>
<b>ClO<sub>2</sub></b>	XNX-XSX1SS	Refer To Cl2	Refer to Cl <sub>2</sub>	Refer to Cl <sub>2</sub>	Refer to Cl <sub>2</sub>	Refer to Cl <sub>2</sub>

Gas type	Part Number	Gas Type Applied	Concentration	Unit	Reading	Unit
NO	XNX-XSM1SS	Carbon Monoxide	300	ppm	0	ppm 4NT
		Sulfur Dioxide	5	ppm	0	ppm 4NT
		Nitrogen Dioxide	5	ppm	<1.5	ppm 4NT
		Hydrogen Sulfide	15	ppm	~1.5	ppm 4NT
NO <sub>2</sub>	XNX-XSN1SS	Carbon Monoxide	300	ppm	0	ppm 4ND
		Hydrogen Sulfide	15	ppm	~ -1.2	ppm 4ND
		Sulfur Dioxide	5	ppm	0	ppm 4ND
		Nitrogen Monoxide	35	ppm	0	ppm 4ND
		Chlorine	1	ppm	~1	ppm 4ND
H <sub>2</sub> (Low Range)	XNX-XSG1SS	Carbon Monoxide	300	ppm	≤ 60	ppm 4HYT
		Hydrogen Sulfide	15	ppm	<3	ppm 4HYT
		Sulfur Dioxide	5	ppm	0	ppm 4HYT
		Nitrogen Monoxide	35	ppm	»10	ppm 4HYT
		Nitrogen Dioxide	5	ppm	0	ppm 4HYT
		Chlorine	1	ppm	0	ppm 4HYT
		Hydrogen Cyanide	10	ppm	»3	ppm 4HYT
		Hydrogen Chloride	5	ppm	0	ppm 4HYT
Ethylene	100	ppm	»80	ppm 4HYT		

Gas type	Part Number	Gas Type Applied	Concentration	Unit	Reading	Unit
H <sub>2</sub> (High Range)	XNX-XSG2SS	Ammonia	100	ppm	0	ppm 3E 1%
		Arsine	0.2	ppm	0	ppm 3E 1%
		Carbon Dioxide	1000	ppm	0	ppm 3E 1%
		Carbon Monoxide	100	ppm	150	ppm 3E 1%
		Chlorine	1	ppm	0	ppm 3E 1%
		Ethylene	500	ppm	yes; n/d	ppm 3E 1%
		Hydrogen Cyanide	20	ppm	0	ppm 3E 1%
		Hydrogen Sulfide	20	ppm	4	ppm 3E 1%
		Iso-Propanol	1100	ppm	yes; n/d	ppm 3E 1%
		Methane	1	%	0	ppm 3E 1%
		Nitrogen Dioxide	10	ppm	-40	ppm 3E 1%
		Ozone	0.25	ppm	0	ppm 3E 1%
		Sulfur Dioxide	5	ppm	0	ppm 3E 1%
HCl	XNX-XSR1SS	Carbon Monoxide	2000	ppm	0	ppm HCl
		Hydrogen	20000	ppm	0	ppm HCl
		Chlorine	5	ppm	5.6	ppm HCl
		Nitrogen Dioxide	5	ppm	0.9	ppm HCl
		Iso-Propanol	500	ppm	0	ppm HCl
		Methanol	500	ppm	0	ppm HCl
		Hydrogen Fluoride	5	ppm	6.7	ppm HCl
		Hydrogen Sulfide	25	ppm	-3.6	ppm HCl
		Sulfur Dioxide	50	ppm	22.4	ppm HCl
		Arsine	1	ppm	0	ppm HCl
		Phosphine	1	ppm	-0.14	ppm HCl
		Diborane	1	ppm	-1.3	ppm HCl

Gas type	Part Number	Gas Type Applied	Concentration	Unit	Reading	Unit
HCN	XNX-XSY1SS	Alcohols	1000	ppm	0	ppm 3E 30 F
		Carbon Dioxide	5000	ppm	0	ppm 3E 30 F
		Carbon Monoxide	100	ppm	0	ppm 3E 30 F
		Hydrocarbons		% range	0	ppm 3E 30 F
		Hydrogen	10000	ppm	0	ppm 3E 30 F
		Nitrogen Monoxide	100	ppm	-5	ppm 3E 30 F
		Nitrogen Dioxide	10	ppm	-7	ppm 3E 30 F
		Hydrogen Sulfide	20	ppm	0	ppm 3E 30 F
HF	XNX-XSF1SS	Carbon Monoxide	2000	ppm	0	ppm HF
		Hydrogen	20000	ppm	0	ppm HF
		Chlorine	5	ppm	3.4	ppm HF
		Nitrogen Dioxide	5	ppm	0.65	ppm HF
		Iso-Propanol	500	ppm	0	ppm HF
		Methanol	500	ppm	0	ppm HF
		Hydrogen Fluoride	5	ppm	7	ppm HF
		Hydrogen Sulfide	25	ppm	-3.6	ppm HF
		Sulfur Dioxide	50	ppm	28.3	ppm HF
		Arsine	1	ppm	0	ppm HF
		Phosphine	1	ppm	-0.14	ppm HF
		Diborane	1	ppm	-1.3	ppm HF

Gas type	Part Number	Gas Type Applied	Concentration	Unit	Reading	Unit
O <sub>3</sub>	XNX-XSZ1SS	Bromine, Iodine			yes; n/d	ppm 3E 1
		Carbon Dioxide	5000	ppm	0	ppm 3E 1
		Carbon Monoxide	100	ppm	0	ppm 3E 1
		Chlorine	1	ppm	1.2	ppm 3E 1
		Chlorine Dioxide	1	ppm	1.5	ppm 3E 1
		Hydrazine	3	ppm	-3	ppm 3E 1
		Hydrogen	3000	ppm	0	ppm 3E 1
		Hydrogen Sulfide	20	ppm	-1.6	ppm 3E 1
		Nitrogen	100	%	0	ppm 3E 1
		Nitrogen Dioxide	10	ppm	6	ppm 3E 1
PH <sub>3</sub>	XNX-XSP1SS	Carbon Monoxide	2000	ppm	<10	ppm PH <sub>3</sub>
		Hydrogen	5000	ppm	<10	ppm PH <sub>3</sub>
		Chlorine	1	ppm	-70	ppm PH <sub>3</sub>
		Nitrogen Dioxide	8	ppm	-860	ppm PH <sub>3</sub>
		Ethanol	2000	ppm	<10	ppm PH <sub>3</sub>
		Iso-Propanol	1000	ppm	<10	ppm PH <sub>3</sub>
		Hydrogen Chloride	10	ppm	<10	ppm PH <sub>3</sub>
		Hydrogen Fluoride	10	ppm	<10	ppm PH <sub>3</sub>
		Hydrogen Sulfide	0.5	ppm	70	ppm PH <sub>3</sub>
		Ammonia	100	ppm	1050 (transient)	ppm PH <sub>3</sub>
		Sulfur Dioxide	50	ppm	550 (transient)	ppm PH <sub>3</sub>
		Silane	1	ppm	364	ppm PH <sub>3</sub>
		Arsine	1	ppm	680	ppm PH <sub>3</sub>
		Diborane	1	ppm	454	ppm PH <sub>3</sub>
Germane	1	ppm	454	ppm PH <sub>3</sub>		

**NOTES:**

- The figures of cross sensitivity are typical values and should not be used as a basis for cross calibration.
- Cross sensitivities may not be linear and should not be scaled.
- For some cross interferents breakthrough may occur if gas is applied a longer time period.