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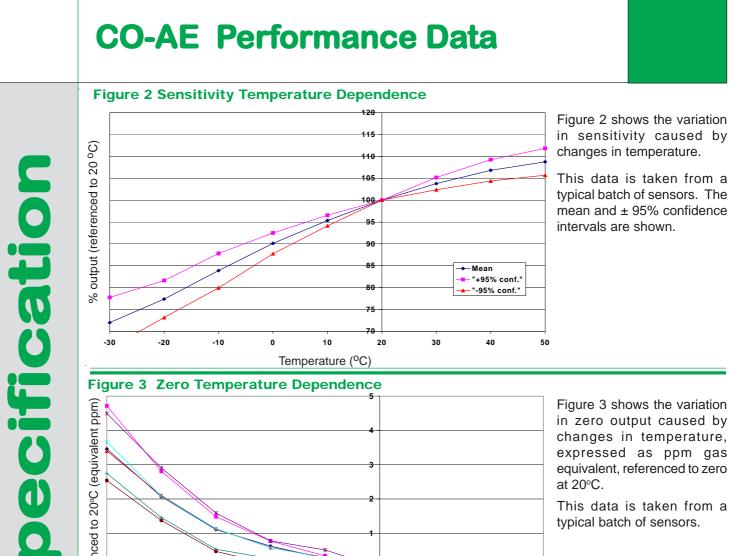
Image: state of the second state of	Figure 1 CO.AF					PATENTED
View Note of the second of	-	-		Ø20.2 in	cluding label	FAIENTED
View CARBON MARK 0 View Bottom View Side View PERFORMANCE Sensitivity nA/ppm in 2,000ppm CO 10 to 2 Zero current Resolution RMS noise (ppm equivalent) 10 to 2 Range ppm CO limit for performance warranty 10000 Ulieerity ppm equivalent in zero air < Resolution RMS noise (ppm equivalent) < Range ppm CO limit for performance warranty 10000 Ulieerity go (s) from zero to 2,000ppm CO < < Vergas limit maximum ppm for stable response to gas pulse 100,00 Ulieerity go (c)		13.5 PCD-	Worker			
Top ViewBottom ViewSide ViewPERFORMANCESensitivity Response time Zero current ResolutionnA/ppm in 2,000ppm CO typ me quivalent in zero air Resolution10 to 2 (< 42)PERFORMANCESensitivity Range Unearity Overgas limitnA/ppm in 2,000ppm CO ppm equivalent in zero air maximum ppm for stable response to gas pulse10 to 2 (< 0 to 50)LifeETIMEZero drift Sensitivity drift Operating lifeppm eror at full scale, linear at zero and 2000ppm CO overgas limit<0 to 50)LIFETIMEZero drift Sensitivity drift W change/year in lab air, monthly test operating life<<ENVIRONMENTAL Sensitivity @ -20°C % Zero @ -20°C Zero @ 50°C% (output @ -20°C/output @ 20°C) @ 400ppm CO ppm equivalent change from 20°C c zero @ 50°C65 to 6 98 to 1 c cCROSS SENSITIVITYFilter capacity Filter capacity Ppm-hoursppm-hours NO2 Sensitivity % measured gas @ 20ppm NO2 c <b< th=""><th>øte</th><th>Sensing area Do not obscure</th><th>Ø18 Ø</th><th>1.5 CO-,</th><th>AE 123456 5</th><th>55</th></b<>	øte	Sensing area Do not obscure	Ø18 Ø	1.5 CO-,	AE 123456 5	55
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						
$\begin{tabular}{ c c c c c c } \hline Response time t_{90} (s) from zero to 2,000ppm CO $<52 \\ \hline Zero current $ppm equivalent in zero air $<52 \\ \hline Resolution RMS noise (ppm equivalent) $<50 \\ \hline Range $ppm CO limit of performance warranty $10,00 \\ \hline Linearity $ppm error at full scale, linear at zero and 2000pm CO $<0 to 56 \\ \hline Overgas limit $ppm equivalent change/year in lab air $<50 \\ \hline Overgas limit $$ $ppm equivalent change/year in lab air $$ $$ $000pm CO $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$$	Тор	View	Bottom View	Side	View +	
Zero current ppm equivalent in zero air < ± 2	PERFORMANCE				~ ~	10 to 2
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					CO	
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $,	warranty	
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$\begin{array}{c c c c c c c c c c c c c c c c c c c $						100,00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	LIFETIME	Zero drift	ppm equivalent chan	ge/vear i	n lab air	<
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						<
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Operating life	months until 80% original	ginal sigr	nal (24 month warranted) > 2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ENVIRONMENTA					65 to 9
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						98 to 11
$ \begin{array}{c} \mbox{CROSS} \\ \mbox{SENSITIVITY} \\ \hline Filter capacity \\ Fi$						< <u>+</u>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			ppm equivalent chan	ge from .	20°C	< ±
$\begin{tabular}{ c c c c c c } \hline Filter capacity & ppm-hours & NO^{-} & 200,00 \\ \hline Filter capacity & ppm-hours & SO_2 & 4,000,00 \\ \hline H_2S & sensitivity & \% & measured gas @ 20ppm & H_2S & <0 \\ \hline NO_2 & sensitivity & \% & measured gas @ 10ppm & NO_2 & <0 \\ \hline Cl_2 & sensitivity & \% & measured gas @ 10ppm & Cl_2 & <0 \\ \hline NO & sensitivity & \% & measured gas @ 50ppm & NO & <0 \\ \hline SO_2 & sensitivity & \% & measured gas @ 20ppm & SO_2 & <0 \\ \hline H_2 & sensitivity & \% & measured gas @ 400ppm & H_2 at 20^{\circ}C & <7 \\ \hline C_2H_4 & sensitivity & \% & measured gas @ 400ppm & C_2H_4 & <0 \\ \hline NH_3 & sensitivity & \% & measured gas @ 20ppm & NH_3 & <0 \\ \hline \end{tabular} \end{tabular} \end{tabular} \begin{tabular}{lllllllllllllllllllllllllllllllllll$					H ₂ S	3,000,00
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	SENSITIVITY					8,000,00
$\begin{array}{c} \mbox{H}_2 S \ \mbox{sensitivity} & \% \ \mbox{measured gas} & @ \ 20ppm & \mbox{H}_2 \tilde{S} & < 0 \\ \mbox{NO}_2 \ \ \mbox{sensitivity} & \% \ \mbox{measured gas} & @ \ 10ppm & \mbox{NO}_2 & < 0 \\ \mbox{Cl}_2 \ \ \mbox{sensitivity} & \% \ \mbox{measured gas} & @ \ 10ppm & \mbox{Cl}_2 & < 0 \\ \mbox{NO} \ \ \mbox{sensitivity} & \% \ \mbox{measured gas} & @ \ 50ppm & \mbox{NO} & < 0 \\ \mbox{SO}_2 \ \ \mbox{sensitivity} & \% \ \mbox{measured gas} & @ \ 20ppm & \mbox{SO}_2 & < 0 \\ \mbox{H}_2 \ \ \mbox{sensitivity} & \% \ \mbox{measured gas} & @ \ 20ppm & \mbox{SO}_2 & < 0 \\ \mbox{H}_2 \ \ \mbox{sensitivity} & \% \ \mbox{measured gas} & @ \ 400ppm & \mbox{H}_2 \ \mbox{at 20^{\circ}C} & < 7 \\ \mbox{C}_2 \mbox{H}_4 \ \ \ \mbox{sensitivity} & \% \ \mbox{measured gas} & @ \ 400ppm & \mbox{C}_2 \mbox{H}_4 & < 6 \\ \mbox{NH}_3 \ \ \ \mbox{sensitivity} & \% \ \mbox{measured gas} & @ \ 20ppm & \mbox{NH}_3 & < 0 \\ \end{array}$						
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$				20ppm		
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			-			< 0.
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$		~ ,	-			< 0.
$\begin{array}{c} H_2 & \text{sensitivity} & \% \text{ measured gas } @ 400 \text{ppm} & H_2 \text{ at } 20^{\circ}\text{C} & <7 \text{ c} \\ C_2H_4 & \text{sensitivity} & \% \text{ measured gas} & @ 400 \text{ppm} & C_2H_4 & <6 \text{ c} \\ NH_3 & \text{sensitivity} & \% \text{ measured gas} & @ 20 \text{ppm} & NH_3 & <0 \text{ c} \\ \end{array}$		NŌ sensitivity	% measured gas @	50ppm	NŌ	< 0.
$\begin{array}{c} C_2H_4 \text{ sensitivity} & \% \text{ measured gas } @ 400ppm & C_2H_4 & < 6 \\ NH_3 & \text{sensitivity} & \% \text{ measured gas } @ 20ppm & NH_3 & < 0 \\ \end{array}$ $\begin{array}{c} \textbf{KEY SPECIFICATIONS} & & & \\ \hline \textbf{KEY SPECIFICATIONS} & & & \\ \hline \textbf{Temperature range} & & & & \\ Pressure range & & & & \\ Pressure range & & & & \\ Humidity range & & & & \\ Storage period & & & \\ \text{Storage period} & & & \\ \text{months } @ 3 \text{ to } 20^{\circ}\text{C} \text{ (stored in sealed pot)} & & \\ \hline \textbf{Load resistor} & & \Omega \text{ (recommended)} & & & \\ Weight & & g & & \\ \end{array}$			-			< 0.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		H ₂ sensitivity	-			< 7
KEY SPECIFICATIONSTemperature range°C-30 to 5Pressure rangekPa80 to 12Humidity range% rh continuous15 to 5Storage periodmonths @ 3 to 20°C (stored in sealed pot)10 to 4Load resistor Ω (recommended)10 to 4Weightg<			-			
Temperature range°C-30 to ξ Pressure rangekPa80 to 12Humidity range% rh continuous15 to ξ Storage periodmonths @ 3 to 20°C (stored in sealed pot)10 to 4Load resistor Ω (recommended)10 to 4Weightg<			Jo measureu yas 🥮 .		1 1 1 ₃	< 0.
Pressure range kPa 80 to 12 Humidity range % rh continuous 15 to 9 Storage period months @ 3 to 20°C (stored in sealed pot) 10 to 4 Load resistor Ω (recommended) 10 to 4 Weight g <	KEY SPECIFICAT		°C			20 to 5
Humidity range % rh continuous 15 to 9 Storage period months @ 3 to 20°C (stored in sealed pot) 10 to 4 Load resistor Ω (recommended) 10 to 4 Weight g <						
Storage period months @ 3 to 20°C (stored in sealed pot) Load resistor Ω (recommended) Weight g		•				
Load resistor Ω (recommended) 10 to 4 Weight g <				(stored i	n sealed pot)	10100
Weight g <						10 to 4
At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic waste, but contact			, ,			<

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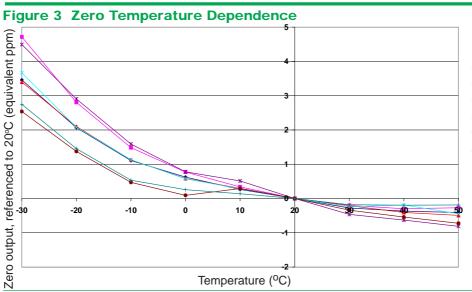
30

Mean "+95% conf. "-95% conf.'

40

50

This data is taken from a typical batch of sensors. The mean and ± 95% confidence intervals are shown.



10

Temperature (°C)

-20

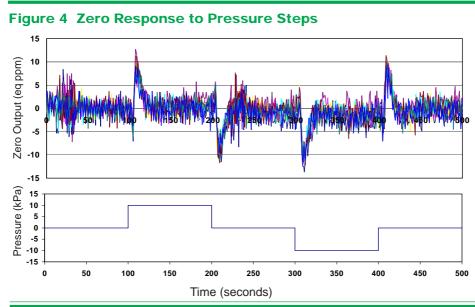
-30

-10

0

Figure 3 shows the variation in zero output caused by changes in temperature, expressed as ppm gas equivalent, referenced to zero at 20°C.

This data is taken from a typical batch of sensors.



From ambient pressure, sensors were subjected to both positive and negative 10kPa pressure steps. The small transient rapidly decays as the sensor returns to its zero baseline.

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