Visit: www.thesafetyequipmentstore.com Or Email: besafe@thesafetyequipmentstore.com for Sales & Service. 184 | DrägerSensor® XS

DrägerSensor [®] XS EC PH₃ HC				Order no. 68 09 535	
Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 7000	yes	yes	1 year	3 years	-

MARKET SEGMENTS

Inorganic chemicals, industry, fumigation, pre entry measurements.

TECHNICAL SPECIFICATIONS

Detection limit:	2 ppm			
Resolution:	 1 ppm			
Measurement range:	0 to 1,000 ppm PH ₃ (phosphine)			
Response time:	≤ 10 seconds (T ₉₀)			
Measurement accuracy				
Sensitivity:	≤ ± 3% of measured value			
Long-term drift, at 20°C (68°F)				
Zero point:	≤ ± 1 ppm/month			
Sensitivity:	≤ ± 3% of measured value/month			
Warm-up time:	≤ 15 minutes			
Ambient conditions	-			
Temperature:	(-40 to 50)°C (-40 to 122)°F			
Humidity:	(10 to 90)% RH			
Pressure:	(700 to 1,300) hPa			
Influence of temperature	-			
Zero point:	No effect			
Sensitivity:	$\leq \pm 5\%$ of measured value			
Influence of humidity				
Zero point:	No effect			
Sensitivity:	≤ ± 0.05% of measured value/% RH			
Test gas:	approx. 4 to 1,000 ppm PH ₃			

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SPECIAL CHARACTERISTICS

This sensor demonstrates excellent linearity across the whole measurement range even if calibrated in the lower levels of that range, and it also provides a stable reading even at high concentrations over long periods of time.

The values shown in the following table are standard and apply to new sensors. The values maybe fluctuate by \pm 30%. The sensor may also be sensitive to additional gases (for more information, please contact Dräger). Gas mixtures may be displayed as the sum of all components. Gases with a negative cross sensitivity may displace an existing concentration of phosphine. To be sure, please check if gas mixtures are present.

Gas/vapor	Chem. symbol	Concentration	Display in ppm PH ₃
Acetone	CH ₃ COCH ₃	1.25 Vol. %	No effect
Ammonia	NH ₃	50 ppm	No effect
Arsine	AsH ₃	5 ppm	≤ 4
Carbon dioxide	CO ₂	10 Vol. %	No effect
Carbon monoxide	CO	300 ppm	No effect
Chlorine	Cl ₂	5 ppm	No effect
Diborane	B ₂ H ₆	5 ppm	≤ 3
Ethanol	C ₂ H ₅ OH	250 ppm	No effect
Ethene	C ₂ H ₄	200 ppm	No effect
Germanium tetrahydride	GeH ₄	5 ppm	≤ 5
Hydrogen	H ₂	1,000 ppm	No effect
Hydrogen chloride	HCI	20 ppm	No effect
Hydrogen cyanide	HCN	25 ppm	≤ 2
Hydrogen selenide	H ₂ Se	5 ppm	≤ 2
Hydrogen sulfide	H ₂ S	20 ppm	≤ 20
i-propanol	(CH ₃)CHOH	1 Vol. %	No effect
Methane	CH ₄	4 Vol. %	No effect
Methanol	CH ₃ OH	200 ppm	No effect
Nitrogen dioxide	NO ₂	20 ppm	≤ 5 ⁽⁻⁾
Nitrogen monoxide	NO	20 ppm	No effect
Silane	SiH ₄	5 ppm	≤ 5
Sulfur dioxide	SO ₂	10 ppm	≤ 2
Toluene	C ₆ H ₅ CH ₃	1 Vol. %	No effect
Trimethylboron	B(CH ₃) ₃	1 ppm	No effect

RELEVANT CROSS-SENSITIVITIES