AP	Ammonia Detector	IP44	LSNH3 April.1	0
			Features	
		(€	- Continuous monotoring	
			- Low zero point drift	
			- Poisoning stable	
	(AP)			
4			- Easy maintenance/calibration	
	A. A.			
			- Reverse polarity protected	
			Overland protected	
			- Overload protected	
			- 4-20mA loop-powered or 2-10Vdc output signal	
		LPNH		

	Tec	hnical	Data
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Technical Data		Applica	tion			
Gas	Ammonia	For detection leakages in refrigeration plants with an as refrigerant and also within a wide range of comme industrial applications.		in refrigeration plants with ammonia		
Detection principle	Semiconductor			ange of commercial and		
Stability & resolution	less than +/- 30ppm	Due to the analogue signal transmitter is compatible to DDC/PLC control or automa		ignal 4-20mA ar	nal 4-20mA and 2-10Vdc the NH3 e to any electronic analogue control, tomation system.	
Response time	t90 <40sec			utomation syste		
Repeatability	+/- 20% of reading					
Sensor coverage	100m2					
Storage time Mounting height	12 months under ceiling					
Outputsignal		Ordering Codes				
4-20mA	load < 500ohm overload and short circuit proofed	Wall MountingLSNH3 300VC30-300ppm				
2-10Vdc	load < 50kohm overload and short circuit proofed			30-300ppm	4-20mA/2-10Vdc	
Power supply Power consumption	18-28Vdc (reverse polarity prot.) 22mA, max (0,6VA)					
Expected lifetime	>5 years normal operating envirom.					
Humidity range		Stain	Enclosure	of stainless stee	I	
Continuous	15-90% rH non-condensing	Tool	Tool for op	pening holes in s	tainless steel enclosure	
Operating range		/GCD	Protocol fo	or CDA-series		
Continuous	-15 up to +50C	GAS 17	Calibration	n gas 17 liter		
Detina	ID44 Destastion Olass	REG	Pressure	regulator flow ac	ajusted to 0,5 lit/min.	
Rating	IP44 Protection Class	Warning devices		See special datasheet		
Pressure range	Atmospheric +/-10%	ospheric +/-10% Warning signs		See special of	latasheet	

Automatikprodukter

Ar De	nmonia etector IP44	LSNH3 April	I.10
Technical Data co Physical Characte	ontinue eristics	Maintanance At commissioning and at periodic intervals determined by the person responsible for the gas detection system (recommendation every year	r).
Enclosure	GW Plast 75 GWT	After exchange of the sensor	
Flammability Enclosure colour Dimensions	RAL 7032 (light grey) 80 x 40mm	If in case of operational or climatic influences sensitivity of the sensor falls below 30 % in operational calibration will not be possible any more.	the tion,
Weight Installation	Approx. 0,2kg Wall mounting	Then the sensor has to be changed.	
Cable entry	Standard 3 pieces	Exchange of sensor element	
Wire connection	Screw type terminal min. 0,25mm2 and max 2,5mm2 Max. loop resistor 500ohm (= wire resistor + controller input resistor)	 Sensor should always be installed without power appli Unplug basic PCB EC-S carefully from the terminal blocks on the base. Unplug old sensor element from the PCB EC-S. Plug in sensor element into the PCB EC-S. Plug in the PCB EC-S into terminal block 	ed: 3.
Guidelines	EMV-Directive 89/336/EWG, CE EM-Directive 2004/108/EWG, CE	carefully.Calibrate	

Connecting Diagram



Terminal 2 i only for 2-10Vdc signal = 3-wire 4-20mA two-wire loop powered

Calibration



Calculation output signal



