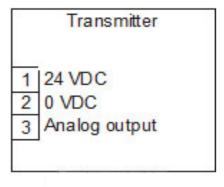
AP	Methane Detector	IP44	LSM 100 May.10
			Features
		(€	<ul> <li>Continuous monotoring</li> <li>Low zero point drift</li> </ul>
1			<ul> <li>Poisoning stable</li> <li>Long life sensor</li> </ul>
1	all a		- Easy maintenance/calibration
	-		- Reverse polarity protected
			Overload protected
		LPNH	- 4-20mA loop-powered or 2-10Vdc output signal

Technical Data		Applicat	ation		
Gas	Methane	For detect	For detection of combustible gas Methane.		
<b>Detection principle</b>	Semiconductor	The transi	The transmitter is used for monotoring leakages in:		
Response time	<30sec	- Gas Pipe	bes - Fan Heaters - Heating systems		
Sensor coverage	100m2	- Gas eng	gines - Boilers - Gas fittings		
concer cerenage		- Transfer	r stations - Gas Valves - Fuelling stations		
Measurement range	0-100% LEL				
Storage time	12 months	Due to the analogue signal 4-20mA and 2-10Vdc the NH3 transmitter is compatible to any electronic analogue control, DDC/PLC control or automation system.			
Mounting height	under the ceiling				
Output signal		Decement			
Output signal 4-20mA	load < 500ohm overload	Recommended alarm levels:			
	and short circuit proofed	Alarm threshold 1: 10% LEL			
2-10Vdc	load < 50kohm overload	Alarm threshold 2: 20% LEL			
	and short circuit proofed				
Power supply	18-28Vdc (reverse polarity prot.)	Orderin	ng Codes		
		Wall Mo	ounting		
Power consumption	22mA, max (0,6VA <b>)</b>	LSM 100	0-100% LEL		
		LOWITOU	0-100% LEL 4-2011A/2-10VdC		
Expected lifetime	>5 years normal operating envirom.				
Humidity range	environi.	Stain	Enclosure of stainless steel		
Continuous	15-95% rH non-condensing	ΤοοΙ	Tool         Tool for opening holes in stainless steel enclosure		
Operating range		/GCD	Protocol for CDA-series		
Continuous	-15 up to +50C	GAS 17 Calibration gas 17 liter			
		REG	Pressure regulator flow adjusted to 0,5 lit/min.		
Rating		Warning			
Pressure range	IP44 Protection Class Atmospheric +/-10%	Warning o Warning s	•		

Automatikprodukter

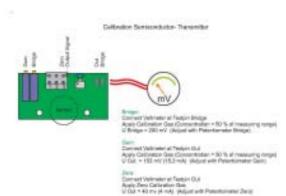
AP	Methane Detector	IP44	LSM 100 May.10	
Technical Data continue Physical Characteristics			Maintanance At commissioning and at periodic intervals determined by the person responsible for the gas detection system (recommendation every year).	
Enclosure Flammability	GW Plast 75 GWT UL94: VO Halogenfree	I.	After exchange of the sensor If in case of operational or climatic influences the	
Enclosure colou Dimensions Weight	Ir RAL 7032 (light grey) 80 x 40mm Approx. 0,2kg		sensitivity of the sensor <b>falls below 30 %</b> in operation, calibration will not be possible any more. Then the sensor has to be changed.	
Installation Cable entry	Wall mounting Standard 3 pieces		Exchange of sensor element	
Wire connection	e connection Screw type terminal min. 0,25mm2 Senso and max 2,5mm2 Max. loop resistor 500ohm (= wire resistor + controller input resistor)		<ul> <li>Unplug old sensor element from the PCB EC-S.</li> </ul>	
Guidelines	EMV-Directive 89/336/I EM-Directive 2004/108	,	<ul><li>Plug in the PCB EC-S into terminal block carefully.</li><li>Calibrate</li></ul>	

## **Connecting Diagram**



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

## Calibration



## Calculation output signal

