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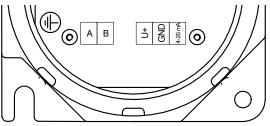


Description:	<ul> <li>Transmitter for flammable gases, toxic gases or oxygen (see ExTox Gas- / Transmitter List)</li> <li>420 mA-output with linear curve</li> <li>For industrial and commercial applications</li> <li>Application in explosion hazardous areas of Zones 1 and 2</li> </ul>		
Features			
Measured Gas:	ExTox Gas- / Transmitter List		
Measuring Range:	<i>ExT</i> ox Gas- / Transmitter List. On demand the standard measuring range can factory sided be diversified in range 50 to 200 %. Bigger deviations if applicable on demand.		
Measuring Principles:	<ul> <li>ExSensWT: Catalytic Combustion</li> </ul>		
	<ul> <li>ExSensIR: Infrared-Absorption</li> </ul>		
	<ul> <li>ExSensEC: Electrochemical Cell</li> </ul>		
	<ul> <li>ExSensKE: Electrochemical Oxygen Cell</li> </ul>		
	<ul> <li>ExSensHL: Metal oxide-semiconductor</li> </ul>		
Operation Mode:	Diffusion (Operation with aspirated flow possible, e.g. in ExTox IMC)		
Response Time:	ExTox Gas- / Transmitter List		
Range of Application			
Temperature:	ExTox Gas- / Transmitter List		
Humidity:	10 r. H to 90 r. H (please avoid condensation)		
Pressure:	800 hPa to 1100 hPa		
Deviations:	<ul> <li>Changes on climatic conditions can be done with the usual rate for atmospheric deviations. Very quick changes, such as for example shock pressures, can cause bigger measuring deviations for short time.</li> <li>Climatic range extension sometimes possible acc. to prior agreement with <i>ExT</i>ox.</li> </ul>		
Conformity			
EC-Directives:	<ul> <li>2014/30/EU (EMC)</li> </ul>		
	<ul> <li>2014/34/EU(ATEX)</li> <li>C €<sub>0158</sub> ⊕ II 2G (suitable for Zone 1 and 2)</li> </ul>		
Type Test:	<ul> <li>EU-Type Test: BVS 04 ATEX E 066 X (EN 60079-0 and EN 60079-1) with 1<sup>st</sup> and 2<sup>nd</sup> amendment</li> </ul>		
	<ul> <li>Performance: BAM 07 ATEX 0301 X (EN 60079-29-1), Methane to Hexane</li> </ul>		
Protection:	■ ExSensWT/-IR/-HL: Ex db IIC T4 (-20 °C $\leq$ T <sub>amb</sub> $\leq$ 60 °C) Gb		
	• ExSensEC: Ex db IIC T5 (-20 °C $\leq$ T <sub>amb</sub> $\leq$ 49 °C) Gb		
	Ex db IIC T4 (-20 °C ≤ T <sub>amb</sub> ≤ 70 °C) Gb		
	• ExSensKE: Ex db IIC T6 (-20 °C $\leq$ T <sub>amb</sub> $\leq$ 43 °C) Gb		
	Ex db IIC T5 (-20 °C ≤ T <sub>amb</sub> ≤ 58 °C) Gb		
	Ex db IIC T4 (-20 °C ≤ T <sub>amb</sub> ≤ 70 °C) Gb		
Measuring Function:	<ul> <li>Designed acc. to EN 60079-29-1 (flammable gases)</li> <li>EN 45544-1 to DIN EN 45544-3 (toxic gases)</li> </ul>		
	EN 50104 (oxygen)		
	<ul> <li>ExSensHL: Restrictions due to measuring principle exist as far as requirements of standards regarding linearity are concerned and on climatic influences. This has to be considered for designing alarm concept.</li> </ul>		

## **Transmitter Series ExSens**

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Dimensions:	ExSensWT/-IR/-HL:	170 mm x 138 (145)mm x 100 mm	
(Length x Width x Height)	ExSensEC:	180 mm x 138 (145)mm x 100 mm	
	ExSensKE:	198 mm x 138 (145)mm x 100 mm	
Weight:	ca. 2.5 kg		
Material:	<ul> <li>Housing: cast aluminium, lacquered</li> </ul>		
	<ul> <li>Sensor block: stainless steel</li> </ul>		
Enclosure Rating:	<ul> <li>IP 65 (except gas inlet)</li> </ul>		
Installation:	<ul> <li>Wall mounting</li> </ul>		
	<ul> <li>Installation on ceiling by means of angle (as option)</li> </ul>		
	<ul> <li>Installation in pipes by means of adapter (as option)</li> </ul>		
Storage Temperature:	-25 °C to +60 °C		
Electrical Features			
Power Supply	24 ± 6 V DC		
Power Consumption:	ExSensWT/-IR/-HL:	80 mA / 2 W	
	ExSensEC/-KE:	40 mA / 1 W	
Interface:	<ul> <li>420 mA, active (other current and voltage ranges on demand)</li> </ul>		
	<ul> <li>linear calibration curve</li> </ul>		
	<ul> <li>Option: RS 485 for remote</li> </ul>	adjustment (Type ExSens-I)	
Max. Load:	500 Ω		
Cable Gland:	M 16 x 1.5 (diameter of cable 4 to 8.5 mm)		
	(ExSens-I: M 16 x 1.5, diameter of cable 6 to 12 mm)		
Terminal Assignment:	U+ Power Supply 24 V	,	
	GND Ground (power su	pply and current output)	
	4-20mA Current Output 4	Current Output 420 mA	
	A RS 485-Interface, c	only Type ExSens-I	
	B RS 485-Interface, c	only Type ExSens-I	



Line:	<i>ExT</i> ox-Cable 4 x 0.8 mm or similar	
	(ExSens-I: ExTox-Cable 6 x 0.8 mm or similar)	
Line Length:	Depending on resistance of used cable; when using $ExTox$ -Cable (wire resistance of 9 $\Omega/km$ )	
	SensWT/-IR/-HL: maximum 1000 m	
	SensEC/-KE: maximum 2000 m	

(Subject to Technical Changes)