

Description:	 Transmitter for flammable gases, toxic gases or oxygen (see <i>ExT</i>ox Gas- / Transmitter List) 420 mA-output with linear curve For industrial and commercial applications Application in explosion hazardous areas of Zones 1 and 2
Features	
Measured Gas:	Ex Tox Gas- / Transmitter List
Measuring Range:	Ex Tox Gas- / Transmitter List. On demand the standard measuring range can factory
Measuring Principles:	sided be diversified in range 50 to 200 %. Bigger deviations if applicable on demand. ExSensWT: Catalytic Combustion
	 ExSensIR: Absorption ExSensEC: Electrochemical Cell ExSensKE: Electrochemical Oxygen Cell ExSensHL: Metal oxide-semiconductor
Operation Mode:	Diffusion (Operation with aspirated flow possible, e. g. in <i>ExT</i> ox IMC)
Setting Time:	<i>ExT</i> ox Gas- / Transmitter List
Range of Application Temperature:	Ex Tox Gas- / Transmitter List
Humidity:	10 r. H to 90 r. H (please avoid condensation)
Pressure:	800 hPa to 1100 hPa
Deviations:	 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. Extension of climatic ranges is in particular cases possible acc. to prior agreement with <i>ExT</i>ox.
Conformity	
EC-Directives:	 2004/108/EC (EMC)
	• 94/9/EC (ATEX) C ϵ_{0158} \odot II 2G (suitable for Zone 1 and 2)
EC-Type Test:	 BVS 04 ATEX E 066 X (EN 60079-1) BAM 07 ATEX 0301 X (EN 60079-29-1) (ExSens-I BG-WT, Measured gases: Methane to Hexane)
Protection:	 ExSensWT/-IR/-HL: Ex d IIC T4 (-20 °C ≤ $T_{amb} ≤ 60$ °C) Gb ExSensEC: Ex d IIC T5 (-20 °C ≤ $T_{amb} ≤ 49$ °C) Gb
	• ExSensKE: • ExSensKE: Ex d IIC T4 (-20 °C $\leq T_{amb} \leq 70$ °C) Gb Ex d IIC T6 (-20 °C $\leq T_{amb} \leq 43$ °C) Gb Ex d IIC T5 (-20 °C $\leq T_{amb} \leq 58$ °C) Gb Ex d IIC T4 (-20 °C $\leq T_{amb} \leq 70$ °C) Gb
Measuring Function:	 Designed acc. to DIN EN 60079-29-1 (flammable gases) DIN EN 45544-1 to DIN EN 45544-3 (toxic gases) DIN EN 50104 (oxygen)
	 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.

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Transmitter Series ExSens

Mechanical Features	
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:	 Housing: cast aluminium, lacquered
	 Sensor block: stainless steel
Enclosure Rating:	 IP 65 (except gas inlet)
Installation:	Wall mounting
	 Installation on ceiling by means of angle (as option)
	 Installation in pipes by means of adapter (as option)
Storage Temperature:	-25 °C to +60 °C
Electrical Features	
Power Supply	$24 \pm 6 \text{ V DC}$
Power Consumption:	 ExSensWT/-IR/-HL: 80 mA / 2 W ExSensFC///Fx 40 mA / 1 W
Interface:	 ExSensEC/-KE: 40 mA / 1 W 4. 20 mA - active (other surrent and veltage renegation domand)
Interface:	 420 mA, active (other current and voltage ranges on demand) linear calibration curve
	 Option: RS 485 for remote adjustment (Type ExSens-I)
Max. Load:	- Option. RS 465 for remote adjustment (Type Exsense) 500 Ω
Cable Gland:	M 16 x 1.5 (diameter of cable 4 to 8.5 mm)
Cable Gland.	(ExSens-I: M 16 x 1.5, diameter of cable 6 to 12 mm)
Terminal Assignment:	U+ Power Supply 24 V
5	GND Ground (power supply and current output)
	4-20mA Current Output 420 mA
	A RS 485-Interface, only Type ExSens-I
	B RS 485-Interface, only Type ExSens-I
Line:	ExTox-Cable 4 x 0.8 mm or similar

Line Length:

(ExSens-I: $ExTox-Cable 6 \times 0.8$ mm or similar) Depending on resistance of used cable; when using ExTox-Cable (wire resistance of $9 \Omega/km$

- Sens ...-WT/-IR/-HL: maximum 1000 m Sens ...-EC/-KE: maximum 2000 m . .

(Subject to Technical Changes)