



Features	
Measured Gas Measuring Range Measuring Principle Operation Temperature Humidity Pressure Response Time t ₉₀	Flammable Gases 0 to 100 % (v/v) IR-Absorption 0 °C to +50 °C 0 r. H. to 95 r. H. (Please avoid condensation) 900 hPa to 1100 hPa < <20 s (Sampling: < 5 s at a gas flow through of 0.5 l/min)
Mechanical Features	
Dimensions Weight Material Enclosure Rating Installation Storage Temperature	 138 mm x 105 mm x 65 mm (Length x Width x Height) approx. 0.5 kg Aluminium (lacquered) / stainless steel IP 54 (with the exception of gas inlet) Wall mounting, installation in pipes with adaptor (optional) -20 °C to +60 °C
Electrical Features	
Power Supply Power Consumption Interface Max. Load Cable Gland	24 ± 6 V DC 80 mA / 2 W 4-20mA (linear) 500 Ω M 16 x 1.5 (diameter of cable 5-9 mm)
Conformity	
EC-Directives	ε ζ€ 89/336/EEC (EMC)
Measuring Function	Designed according to EN 61779-1 with EN 61779-5

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Transmitter Sens BG-100-IR

Article-No.: 211227

Installation Place	:	 Close to potential sources of release, if known. Otherwise near to the floor (for gases heavier than air) or ceiling (for gases lighter than air, for example hydrogen, methane, ammonia) In systems with sampling of measured gas, for example ExTox Integral Measuring Concepts IMC
Position	:	as per request
Fixing	:	drilling jig as Download on our ExTox Homepage
Terminal Assignment	:	
		U+ Power supply 24 V GND Ground (Power supply and current output)
		4-20mA Current output 4-20mA
Line Length	:	max 1,000 m when using ExTox-Cable 3 x 0.8 mm
		(corresponds to a wire resistance of 9 Ω)
Time of Stabilisation Use	:	approx. 1 min (90%), approx. 30 min (99%)
Description of the Measuring Principle	:	Many gases absorb IR-light at specific wave lengths. In case a cell with measured gas is lighted through by an IR-Source, the attenuation of light intensity measured at the output has to be considered as size for the measured gas concentration
Cross Sensitivity	:	 The IR-Sensor reacts upon all hydrocarbons. There might be various differences in relative sensitivity depending on substance. Hydrogen does not supply with a measuring signal due to the principle
Special Influences	:	 Keep dust and condensate away. Alarm levels from 10 % (v/v)
Sensor Lifetime	:	typical: 2-5 years, depending on operation conditions
Maintenance	•	
Intervals	:	Regularly according to regulations to be applied, otherwise adapted to the environmental conditions, but minimum once a year. We recommend to keep EN 50073 and national regulations (or
Test Cas (Zara Daint)		German BG Chemie-Information BGI 518)
Test Gas (Zero Point)	÷	Nitrogen, synthetic air
Test Gas (Sensitivity)		approx. 50 % (v/v) of measuring component 0.5 to 1.1/min for minimum 60 c
	•	
Selisor Element,		
Replacement		EN E0072 PC Chamic Information PCI E19 (Corman version only)
Further Information	:	EN SUU73, BG CHEMIE-INFORMATION BGI SIX (GERMAN VERSION ONLY)

This Data Sheet is at the same time a type specific supplement to the Instruction Manual *ExTox Transmitter ExSens/Sens.*

(Subject to technical change)