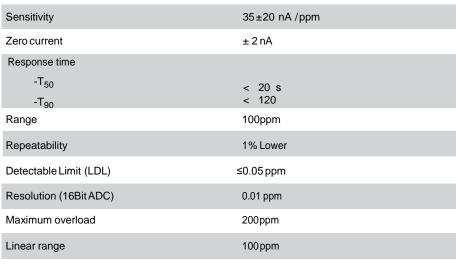


Easy Gas Sensor ES1-HCHO-100 Formaldehyde

Technical Specification Performance



Environment

Temperature Range	-20 to 50°C
Humidity Range (non condensing)	10 to 95 % R.H
Pressure Range	800 to 1200 hPa

Operation

Operating principle	amperometric, 3-electrode
Bias voltage	0 mV
Recommended load resistor	100 Ω
Warm up time	< 20s

Lifetime

Long Term Sensitivity Drift	< 1%/month
Zero Drift in clean air	<0.2ppm
Storage conditions	0-20°C
Storage life	6 month
Expected Life Time	> 3 years
Warranty	12 month

Housing

Housing material	PPO
Weight	<0.7g



Part Number: 01-ES1-HCHO-100-01

Features

- Extreme linear response up to high concentration
- Fast response
- Low noise
- · No electrolyte leakage
- · Low cost at large volumes
- Individually calibrated including test report

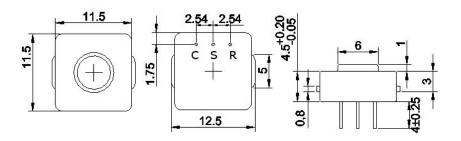
Typical applications

- TLVmonitoring
- Indoor Air Aquality

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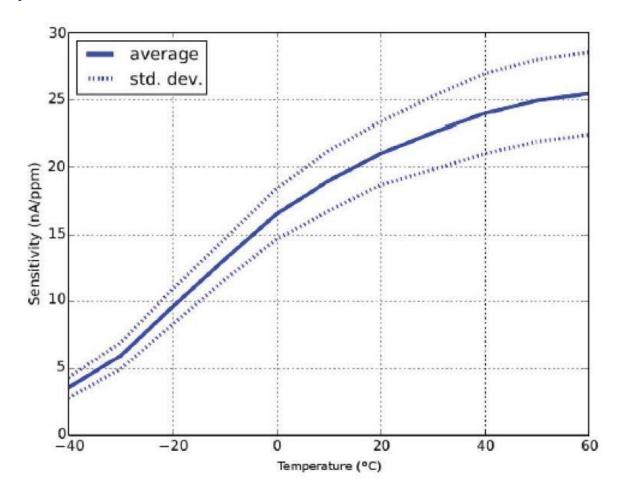


Dimensions



All dimensions in mm

Temperature curve







Cross sensitivity

Gas		Test Gas Concentration	Reading in ppm
Carbon Dioxide	CO2	5000ppm	0ppm
Ammonia	NH3	100ppm	0ppm
Carbon Monoxide	СО	100ppm	6ppm
Methane	CH4	10000ppm	0ppm
Toluene	C7H8	50ppm	0ppm
Benzene	C6H6	50ppm	0ppm
Ethanol	C2H6O	100ppm	0ppm
Ethylene	C2H4	100ppm	0ppm
Hydrogen	H2	100ppm	<3ppm
Hydrogen	H2	20000ppm	<50ppm
Hydrogen Cyanide	HCN	20ppm	<1ppm
Sulphur Dioxide	SO2	10ppm	<1ppm
Nitrogen Dioxide	NO2	10ppm	0ppm
Chlorine	Cl2	20ppm	0ppm
Hydrogen Chloride	HCl	5ppm	0ppm

HCHO sensor no reaction for all of these material: Shampoo, Washing Powder, Washing liquid, Washing Spirit, 84 Toilet Liquid, Iodine.

When you are eating in the room, the HCHO sensor no reaction for this food smelling.

HCHO sensor reaction in mouth smelling;

HCHO sensor reaction with Orange smelling, this smelling is high HCN gas, please see above the cross

Test Conditions: T=20°C, P=1013hPa, Flow Rate=300ml/min We will continue improve this data and will test more gas.

If you have any question please contact with us

rate>150qcm/min using EC-Sense recommended circuitry. Cross sensitivity gases are not target gases. Relations and performance can change, also with ageing of the accept any legal responsibility for customer applications of our sensors. EC-Sense accepts no liability for any consequential losses, injury or damage resulting from the

is for quidance only and may not be taken as warranty. Any use of the given data must be assessed and determined by the user thereof to be in accordance with federal,

WARNING: EC-Sense sensors are designed to operate in a wide range of harsh conditions. It is nevertheless essential to prevent exposure to high concentrations of solvent

Please note that gluing or soldering direct to the pins of EC-Sense gas sensors will void any warranty. Please use PCB sockets when connecting EC-Sense sensors. Any

sensors and instruments for response to gas before use, especially where life safety is a performance requirement of the product. At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic waste but contact EC-Sense or their distributor for disposal instructions. Customers should test under their own conditions to ensure that the sensors are suitable for their specific requirements.

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