Dart Sensors WZ HCHO Sensor

Operation Manual

ProSense Technologies Co., Ltd.

Brief Introduction

WZ Formaldehyde sensor from DART SENSORS works on the proven fuel cell technology and responds directly to the volume concentration of HCHO. WZ realizes the detection of HCHO by the reaction occurred on the working electrode of the micro fuel cell, during which the current generated is proportional to the concentration of HCHO. WZ is perfect for application powered by battery because fuel cell realizes gas detection without power consumption.

Feature

*0 power consumption

*High precision

*High sensitivity

*High performance/cost ratio

*Wide linear range

*Fast response

*Excellent repeatability and stability

Application

Indoor air quality

Consumer Market

General gas detection

household applications

Wearable Device

Environmental protection

Industry safety

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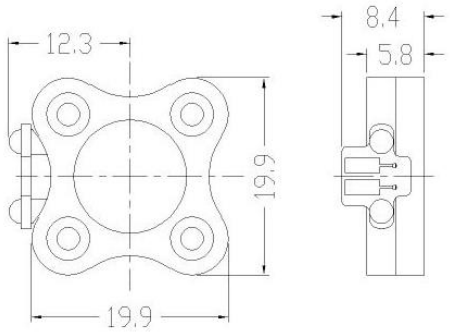
Technical Specification

Item	Technical Specification
Principle	Micro Fuel Cell
Range	0-2ppm
Max Overload	10ppm
Sensitivity	250±100(nA/ppm)
Response Time(T90)	＜40Sec
Baseline（20℃）	±30ppb
Repeatability	2%
Linearity	linear
Temperature	-20℃～50℃
Pressure	1atm±10％
Humidity	15％－90％
Lifetime	5 years in air
Warranty Period	12 months
Weight	3g

Dimensions



Notes：1 All dimensions in mm
2 All tolerances ±0.15mm unless otherwise stated

Cross-Sensitivity Data

Notes: All performance data is based on condition at 20℃, 50%RH & 1013mbar.For sensor performance data under other conditions, please contact us.

Gas	Concentration Used（ppm）	WZ（ppm HCHO）
C2H5OH	10	2
NH3	10	0
C6H6	10	10
CH3COOH	10	0

Precautions

1 .The sensor should be prevented from organic solvents or corrosive gases
2 .The sensor should not be stored in dusty, dirty areas and anaerobic environment
3 .The sensor must not be exposed to very high concentration of the analyte permanently
4 .Excessive shock or vibration should be prevented to avoid internal damage

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