

FECS50-100 - for the Detection of Hydrogen Sulfide

Features:

- * High sensitivity/selectivity to H₂S
- * Quick response to H,S
- * Small influence by CO
- * Linear output
- * Long life
- * Stable baseline
- * Unique leak-proof structure

- * Portable and fixed installation H,S monitors
- * H₂S detectors

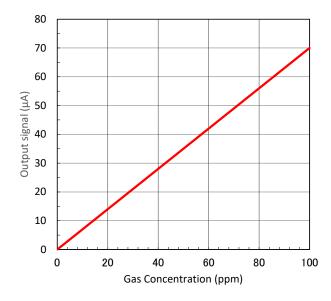
Applications:

The FECS50-100 is a unique electrochemical-type hydrogen sulfide sensor. Its most notable features are small influence by CO and a unique leak-proof structure. These features make the sensor ideal for H_2S monitors and detectors in various fields.



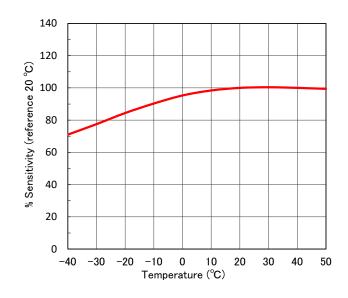
Sensitivity Characteristics:

Typical characteristics (linearity) of FECS50-100 (20° C) are shown below.



Temperature Dependency:

Typical characteristics (temperature dependency) of FECS50-100 are shown below.





Specifications:

Detection Gas	Hydrogen Sulfide
Detection Range	0 ~ 100 ppm
Maximum Overload	500 ppm
Output Signal	700 ± 150 nA/ppm (*)
Repeatability	±2% (*)
Resolution	0.1 ppm (*)
Typical Baseline Range (Pure air)	-0.1ppm to +0.4 ppm (*)
Typical Response Time (t ₉₀)	< 30 sec (*)
Baseline Shift (-20 ~ 40°C)	< 0.5 ppm(*)
Long Term Output Drift	< 2% /month (*)
Expected Life Time	> 2 years (*)
Operating Temperature	-40 ~ 50°C
Operating Humidity	15 ~ 90% RH
Operating Pressure Range	1013 hPa ±10%
Recommended Load Resistor	10Ω
Bias Voltage	Not required
Position Sensitivity	None
Recommended Storage Temp.	0 ~ 20°C
Cap Color	Dark Blue
Weight	4.5g (approx.)

(*) Performance data conditions: 20 °C, 50%RH and 1013 hPa.

Cross Sensitivity Data:

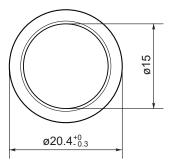
Table1 shows the typical response of FECS50-100 to interference gases.

Table1 Cross Sensitivity of FECS50-100 (20°C)

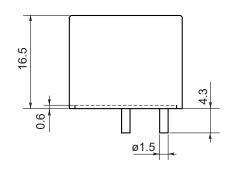
Table 1 Closs Selisitivity of 1 ECSSO-100 (20 C)		
Gas	Concentration (ppm)	Typical Hydrogen Sulfide Concentration(ppm)Equivalent
Hydrogen Sulfide	10	10
Carbon Monoxide	300	< 2
Carbon Dioxide	5,000	0
Hydrogen	1,000	< 3
Sulphur Dioxide	5	0.5
Nitric Oxide	30	0.3
Nitrogen Dioxide	5	-1
Ammonia	100	0
Ethanol	1,000	< 2

Dimensions:

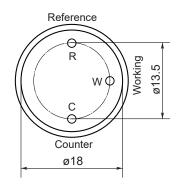
Top view



Side view



Bottom view



All dimensions in mm.

All tolerance ± 0.1mm unless otherwise stated.

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