

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

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 $\rm H_2S$ monitors and detectors in various fields.

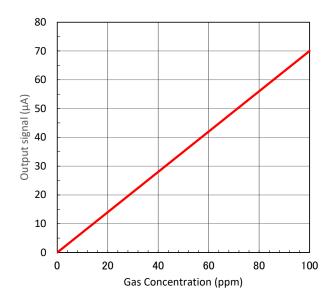
Applications:

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



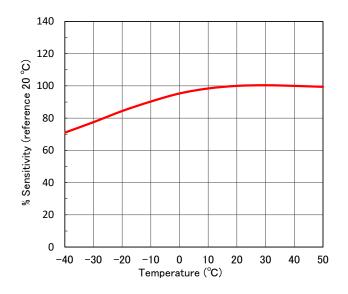
Sensitivity Characteristics:

Typical characteristics (linearity) of FECS50-100 (20 $^{\circ}$ C) are shown below.



Temperature Dependency:

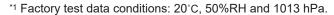
Typical characteristics (temperature dependency) of FECS50-100 are shown below.





Specifications:

Hydrogen Sulfide
0 ~ 100 ppm
500 ppm
700 ± 150 nA/ppm (*1)
±2% (*1)
0.1 ppm (*1)
-0.1ppm to +0.4 ppm (*1)
< 30 sec (*1)
< 0.5 ppm (*1)
< 2% /month (*1)
> 2 years (*1,*2)
-40 ~ 50°C
15 ~ 90% RH
1013 hPa ±10%
10Ω
Not required
None
0 ~ 20°C
Dark Blue
4.5g (approx.)



^{*2} Life expectancy in normal air under the factory test conditions is defined as the period until sensor output drops to 60% of its original value.

Cross Sensitivity Data:

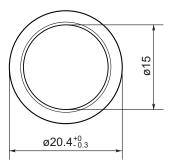
Table1 shows the typical response of FECS50-100 to interference gases.

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

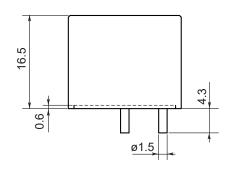
Gas	Concentration (ppm)	Typical Hydrogen Sulfide Concentration(ppm)Equivalent
Hydrogen Sulfide	10	10
Carbon Monoxide	300	< 2
Carbon Dioxide	5,000	0
Hydrogen	1,000	< 3
Sulphur Dioxide	5	0.5
Nitric Oxide	30	0.3
Nitrogen Dioxide	5	-1
Ammonia	100	0
Ethanol	1,000	< 2

Dimensions:

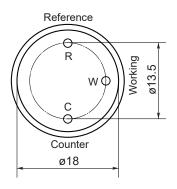
Top view



Side view



Bottom view



All dimensions in mm.

All tolerance ± 0.1mm unless otherwise stated.

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