

## FECS40-1000 - for the Detection of Carbon Monoxide

## Features:

- \* High sensitivity/selectivity to CO
- \* Quick response to CO
- \* Linear output
- \* Long life
- \* Stable baseline
- \* Unique leak-proof structure

## Applications:

- \* Portable and fixed installation CO monitors
- \* CO detectors
- \* Ventilation control for indoor parking garages



### Sensitivity Characteristics:

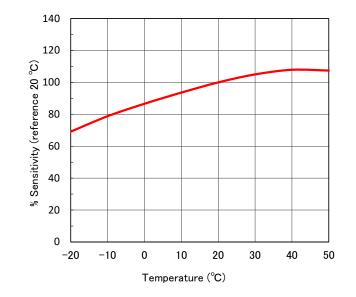
Typical characteristics (linearity) of FECS40-1000 (20 $^\circ\text{C})$  are shown below.

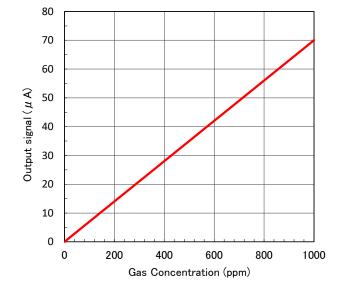
The FECS40-1000 is a unique electrochemical-type carbon monoxide sensor. Its most notable feature is its unique leak-proof structure,

making it ideal for CO monitors and detectors in various fields.



Typical characteristics (temperature dependency) of FECS40-1000 are shown below.





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## **Specifications**:

Carbon Monoxide
0 ~ 1000 ppm
1500 ppm
70 ± 15 nA/ppm (*1)
±2% (*1)
1 ppm (*1)
-2 ppm to +3 ppm (*1)
< 30 sec <sup>(*1)</sup>
< 5 ppm (typical) <sup>(*1)</sup>
< 5% /year (*1)
> 3 years (*1,*2)
-20 ~ 50°C
15 ~ 90% RH
1013 hPa ±10%
10 Ω
Not required
None
0 ~ 20°C
Red
4.5g (approx.)

<sup>\*1</sup> Factory test data conditions: 20°C, 50%RH and 1013 hPa.

<sup>\*2</sup> 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 :

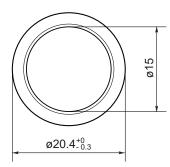
Table1 shows the typical response of FECS40-1000 to interference gases.

Gas	Concentration (ppm)	Typical Carbon Monoxide Concentration(ppm)Equivalent
Carbon Monoxide	100	100
Hydrogen	100	< 40
Carbon Dioxide	5,000	0
Sulphur Dioxide	30	0
Hydrogen Sulfide	30	0
Nitric Oxide	30	< 3
Nitrogen Dioxide	30	0
Ammonia	100	0
Ethanol	200	0

#### Table1 Cross Sensitivity of FECS40-1000 (20°C)

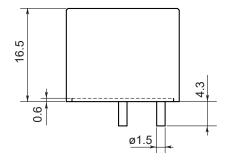
### Dimensions:

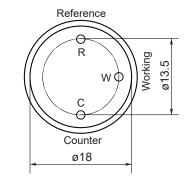
Top view



Side view

Bottom view





All dimensions in mm.

All tolerance  $\pm$  0.1mm unless otherwise stated.

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