

FECS44-1000 / -5000

- for the Detection of High Concentration Ammonia

Features:

- * High selectivity to NH,
- * Small influence by H₂S
- * Excellent durability to NH, exposure
- * Linear output
- * Long life
- * Stable baseline
- * Unique leak-proof structure

Applications:

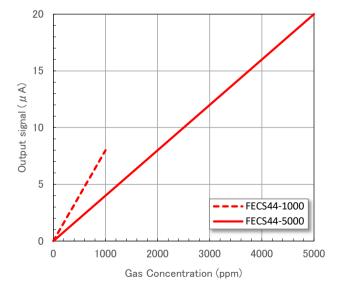
- * Portable and fixed installation NH, monitors
- * NH₃ detectors
- * Ammonia leak detection in refrigerators

Figaro's Ammonia Sensor FECS44 is a unique electrochemical-type ammonia sensor. Its most notable features are small influence by H_2S , excellent durability to NH $_3$ exposure, and a unique leak-proof structure. These features make the sensor ideal for NH $_3$ monitors and detectors in various fields.



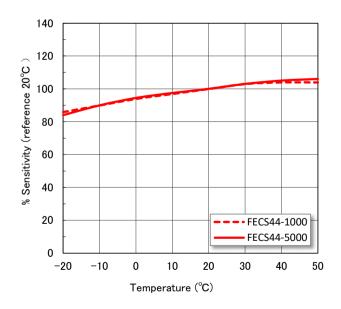
Sensitivity Characteristics:

Typical characteristics (linearity) of FECS44-1000 / -5000 (20° C) are shown below.



Temperature Dependency:

Typical characteristics (temperature dependency) of FECS44-1000 / -5000 are shown below.





Specifications:

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< 2% /month (*)		
Over 2 years (*)		
-30 ∼ 50°C		
15 ~ 90% RH		
1013 hPa ±10%		
33Ω		
Not required		
None		
0 ~ 20°C		
6 months		
Purple		
4.5g (approx.)		
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(*) Performance data conditions: 20°C, 50%RH and 1013 hPa.

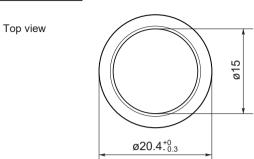
Cross Sensitivity Data:

Table1 shows the typical response of FECS44-1000 / -5000 to interference gases.

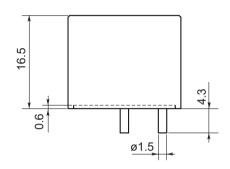
Table1 Cross Sensitivity of FECS44-1000 / -5000 (20C)

Model Number	FECS44-1000		FECS44-5000	
Gas	Concentration (ppm)	Typical Ammonia Concentration(ppm) Equivalent	Concentration (ppm)	Typical Ammonia Concentration(ppm) Equivalent
Ammonia	100	100	100	100
Hydrogen Sulfide	20	0	20	0
Sulphur Dioxide	20	-8	20	-12
Carbon Dioxide	5,000	0	5,000	0
Carbon Monoxide	300	0	300	0
Hydrogen	1,000	0	1,000	0
Nitrogen Dioxide	20	0	20	0
Nitric Oxide	30	0	30	0
Ethanol	100	0	100	0

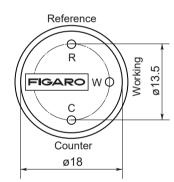
Dimensions:



Side view



Bottom view



All dimensions in mm.

All tolerance ± 0.1mm unless otherwise stated.

