FIGARO

product presentation

FECS45-10 Gas Sensor for Chlorine Detection

characteristic：

* High sensitivity and selectivity to chlorine gas
* linear output
* long-life
* baseline stability
* Unique leak-proof structure

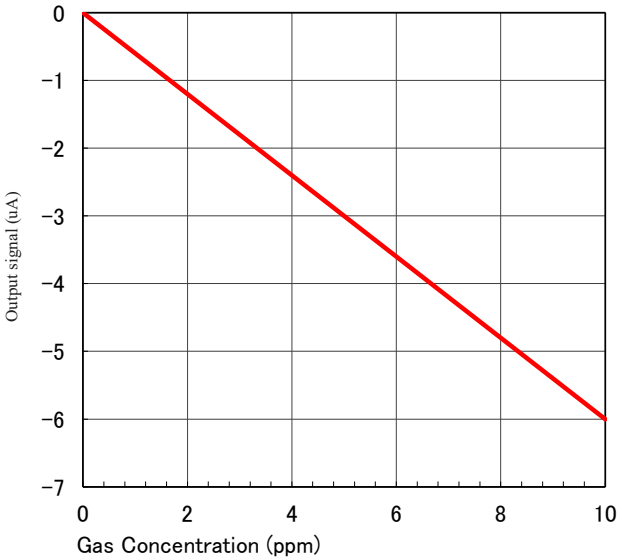
apply：

Portable and fixed chlorine monitors
:: Chlorine gas detectors

FECS45-10 is a very unique electrochemical chlorine gas sensor. Its most significant feature is its unique leak-proof structure, which makes it the ideal choice for chlorine gas monitors and detectors in various fields.

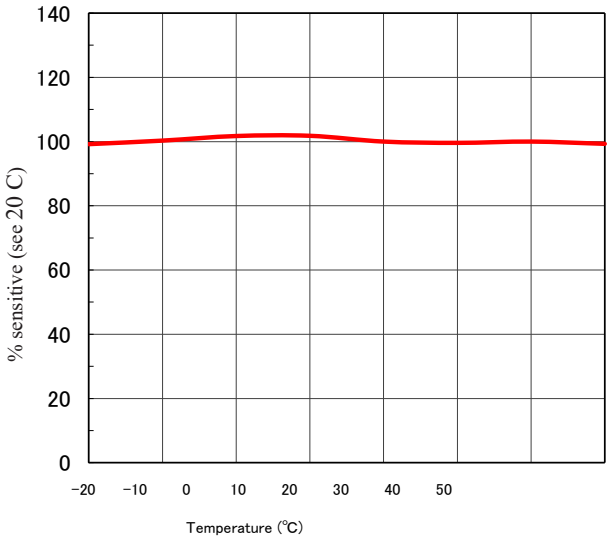
Sensitivity characteristics:

The typical characteristics (linear output) of FECS45-10(20. C) are shown in the figure below.



Temperature dependent characteristics:

The typical characteristics (temperature dependent) of FECS45-10 are shown in the figure below.



FIGARO

product presentation

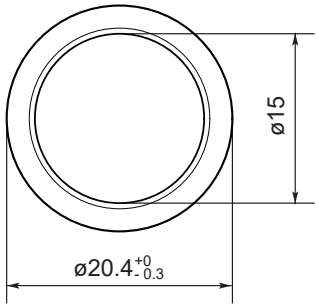
specifications：

Object gas	chlorine
Scope of detection	0 ~ 10 ppm
Extreme overload	50 ppm
output signal	-600 ± 150 nA/ppm (*)
repetitiveness	±2% (*)
resolution ratio	0.1 ppm (*)
Typical baseline range (pure air)	<±0.2 ppm(*)
Typical response time (t90)	<60 seconds (*)
Baseline conversion (-20 ~ 50℃)	< ±0.5 ppm(*)
Long-term output drift	<2% / month (*)
expected life	>2 years (*)
working temperature	-20 ~ 50℃
Humidity at work	15 ~ 90% RH
working pressure range	1013 hPa ±10%
Recommended load resistance	33 Ω
offset voltage	no requirement
Directional sensitivity	not have
Recommended storage temperature	0 ~ 20℃
Hat color	brown
net weight	About 4.5g

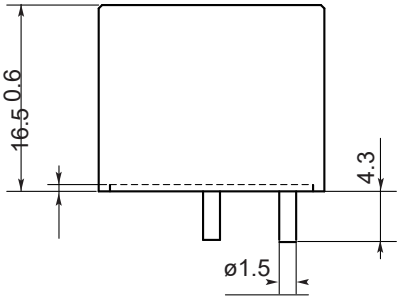
(*) Performance parameters prerequisite: 20. C,50%RH,1013hPa.

Structure and size:

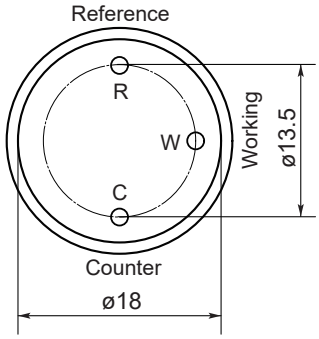
vertical view



lateral view



upward view



Unit：mm
Unless otherwise stated, all work is ±0.1mm

Cross-sensitive characteristic data:

Table 1 below shows the typical response of FECS45-10 to various interfering gases.

Table 1 Cross-Sensitivity Characteristics of FECS45-10 (20.C)

gas	potency (ppm)	Typical chlorine equivalent concentration (ppm)
chlorine	10	10
carbon monoxide	300	0
carbon dioxide	5,000	0
hydrogen	1000	0
nitrogen dioxide	10	10
nitric oxide	35	< -0.3
hepatic gas	15	< -7.5
sulfur dioxide	20	0
ethyl alcohol	100	0

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