

NAP-50A

NAP-50A is a miniature & low power consumption type sensor. NAP-50A is mainly used for gas detectors. Compared to NAP-55A, NAP-50A has a lower alcohol sensitivity to eliminate false alarms caused by alcohol, thus more reliable gas detectors can be produced with NAP-50A. The following are the basic characteristics but it is recommended to refer to the individual user's manual for further information. See NAP-66A for measuring circuit for sensor evaluation.

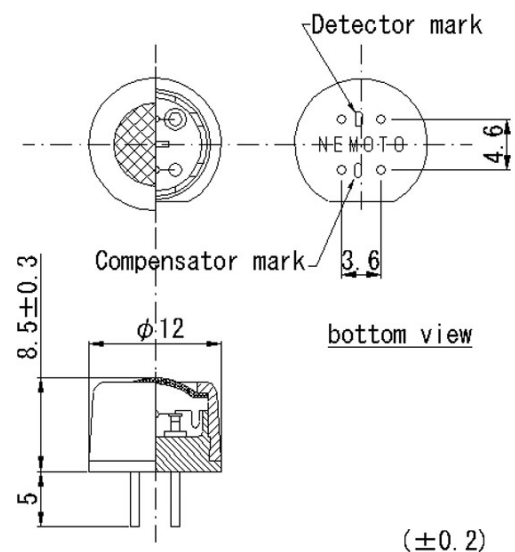
* Target gases and detection range

Gases		Detection range
Methane	CH ₄	0.05 ~ 5% (0.05 ~ 2%)
Ethane	C ₂ H ₆	0.05 ~ 3.2% (0.05 ~ 1.5%)
Iso-butane	Iso-C ₄ H ₁₀	0.03 ~ 1.8% (0.03 ~ 0.8%)
Hydrogen	H ₂	0.05 ~ 4% (0.05 ~ 1.5%)
Hydrocarbons	C _n H _{2n+2}	1~100% LEL (1~50%LEL)

() is a detection range in high accuracy

* Ratings

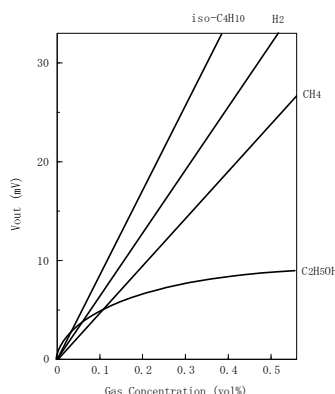
Items	Ratings
Supply Voltage	DC 2.5 ± 0.25V AC 2.5 ± 0.25V (r.m.s. 50~60Hz)
Current (When 2.0V is applied)	DC 150 ~ 170mA AC 150 ~ 170mA (r.m.s. 50~60Hz)
Ambient Temperature	In operation -10 ~ +50°C In storage -10 ~ +50°C
Ambient humidity	In operation 95%RH or less In storage 99%RH or less (No dew condensation)



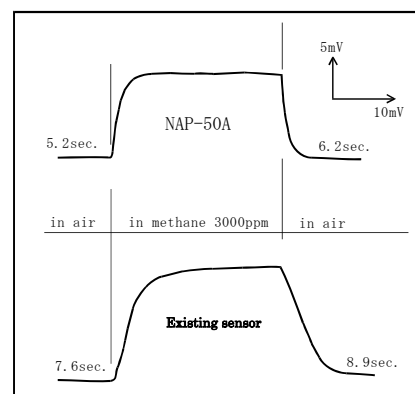
Structure & appearance of NAP-50A

* Gas sensitivity characteristics

Gases & concentration	Output voltage
Output in air	-35 ~ +35mV
Methane 3000ppm	10 ~ 16mV
Iso-butane 1400ppm	9 ~ 14mV
Hydrogen 1400ppm	7 ~ 12mV
Ethanol 1%	Less than 10mV



Gas sensitivity characteristics



Response characteristics