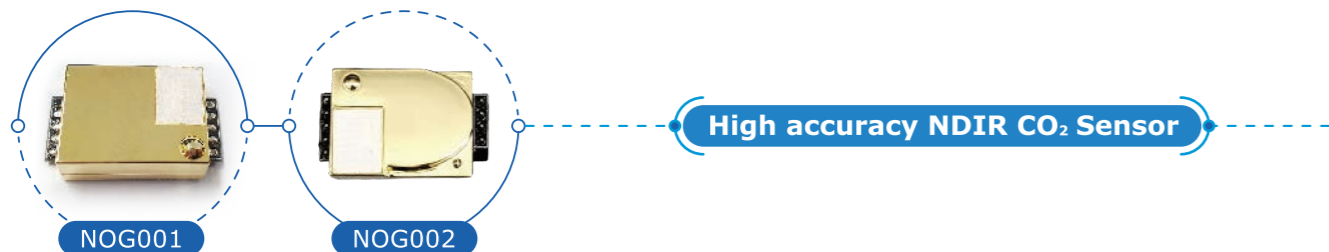


Gas Sensor

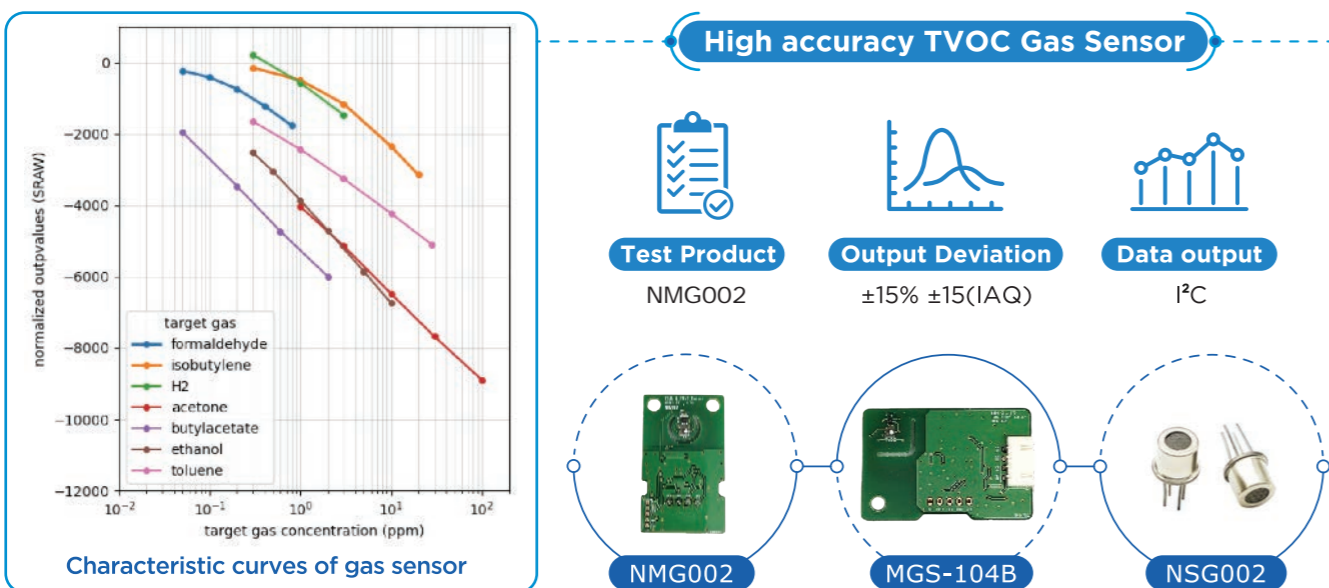
Gas sensor detects odors and harmful gases in daily life.

NDIR CO₂ Sensor



Model	Size [mm]	Supply voltage	Output interface	Detection range	Output deviation	Characteristics
NOG001	33×20×17.6	+5V input	UART	400~5,000 ppm (CO ₂)	±5% ±50 ppm	High Sensitivity Single type
NOG002	33×20.5×18	+5V input	UART	400~5,000 ppm (CO ₂)	±5% ±50 ppm	High Sensitivity Dual type
NOG101	79.3×42.8×25.2	+12V input	LIN	400~5,000 ppm (CO ₂)	±5% ±50 ppm	For automotive Single type Released in 2022
NOG011	33×20.5×18	+5V input	UART	0~100 %LEL (CH ₄)	±3%	NDIR CH ₄ sensor Dual type Released in 2022

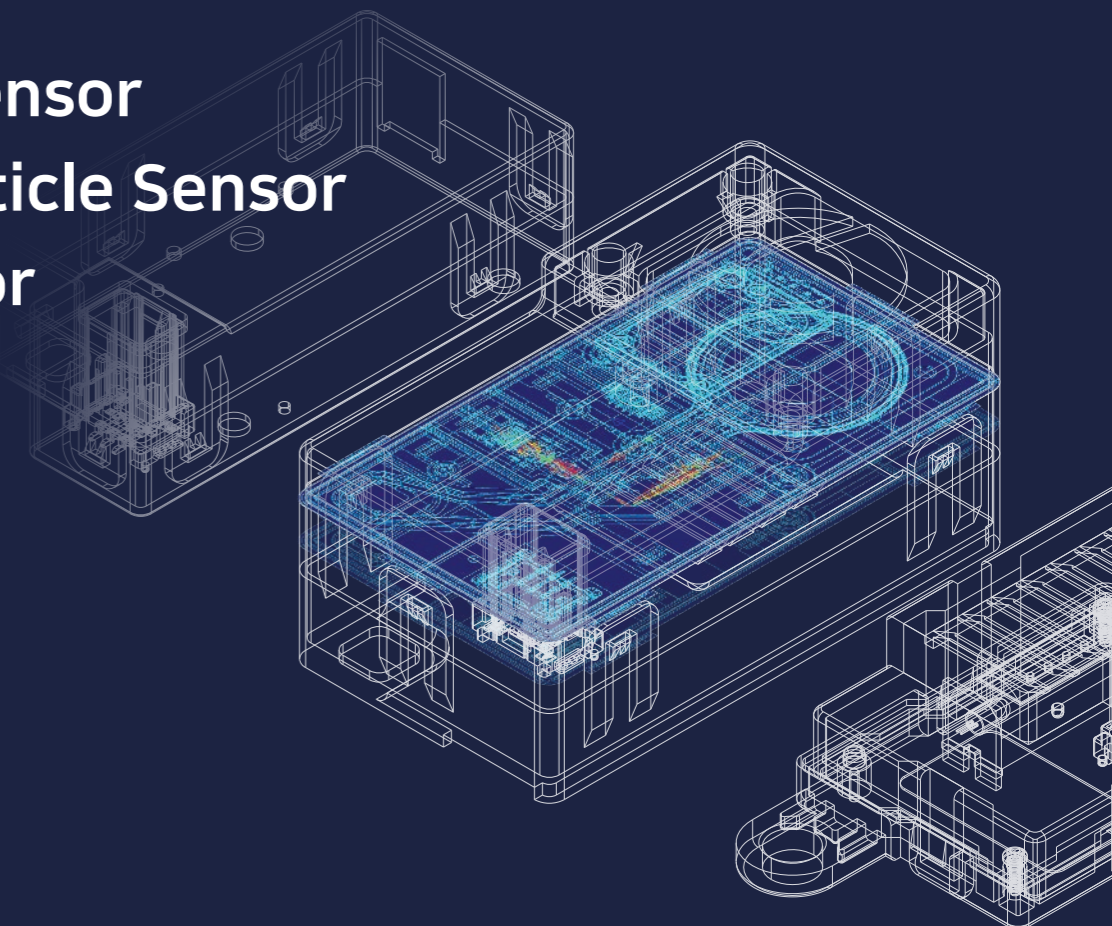
TVOC Sensor



Model	Size [mm]	Supply voltage	Output interface	Detection range	Output deviation	Characteristics
NMG002	22×37×9.7	+5V input	I ² C	0~500 Index (IAQ)	±15% ±15 (IAQ)	High performance MEMS sensor High Sensitivity Compensation algorithm Low-consumption
MGS-104B	45×30×9.7			0~65 °C (Temperature)	±1 °C (Temperature)	
NSG002	Φ9.4×17.6	+5V input	Analog Voltage	Various gases	±10% (Rs/R0)	

Air Quality SENSOR

- IR Dust Sensor
- Laser Particle Sensor
- Gas Sensor



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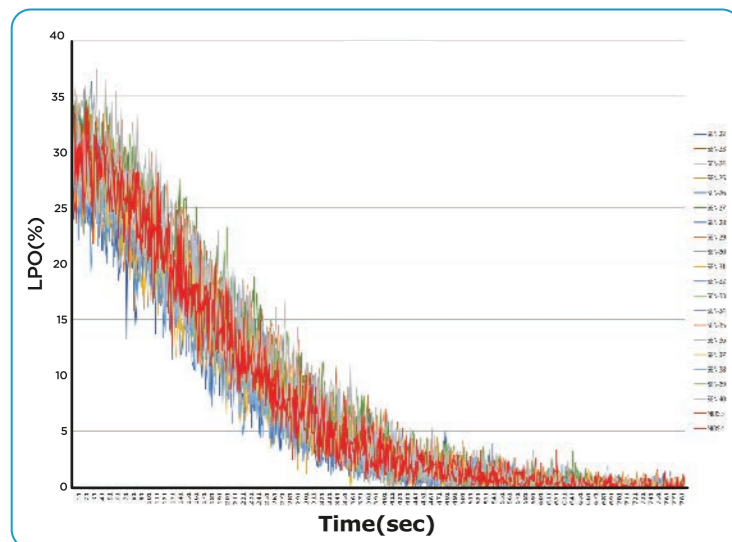


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IR Dust Sensor

Dust sensor detects the dust particle concentration in air by using optical sensing method. An infrared light (IR LED) and a photo-sensor are optically arranged in this device.

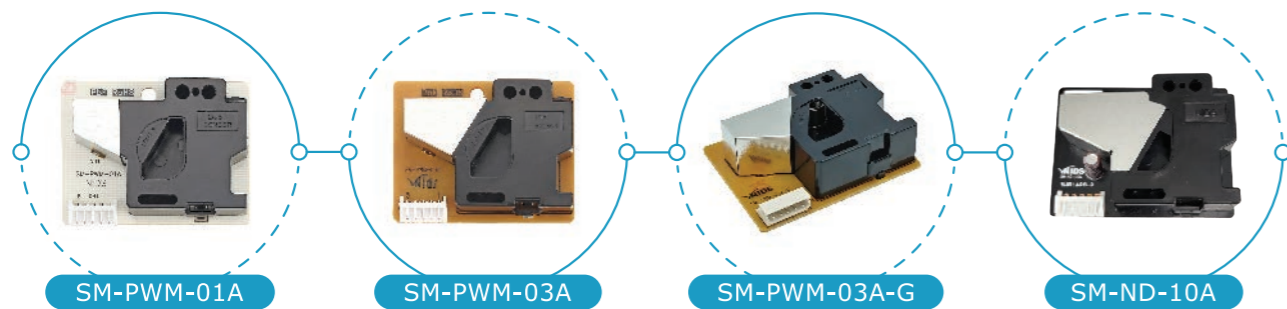
High accuracy IR dust sensor



Test Product
SM-PWM-03A

Data output
PWM

NIDS Dispersion control
±15%

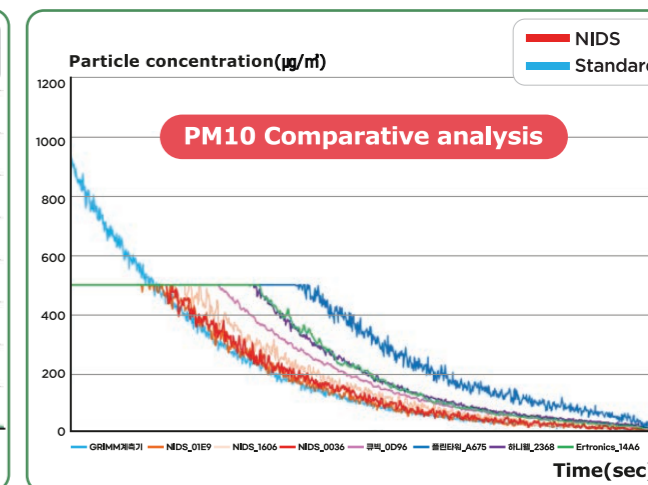
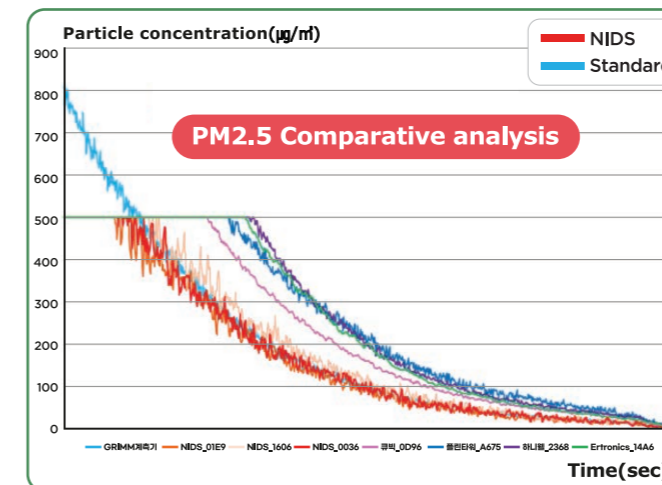


Model	Size [mm] / Weight [g]	Supply voltage	Output interface	Detection range	Output deviation	Characteristics
SM-PWM-01A	59×46×18 / 23	+5V input	PWM UART 5V TTL	0~800,000 pcs/ft ³ 0~300 μg/m ³	±30%	Moving average Self diagnosis function Heart beat output for monitoring
SM-PWM-03A	59×45×18 / 23	+5V input	PWM UART 5V TTL	0~800,000 pcs/ft ³ 0~300 μg/m ³	±15%	High accuracy
SM-PWM-03A-G	59×45×18 / 25	+5V input	PWM UART 5V TTL Analog Voltage (TVOC)	0~800,000 pcs/ft ³ 0~300 μg/m ³	±15%	Multi sensor module (Dust+TVOC)
SM-ND-10A	59×45×18 / 23	+5V input	PWM UART 5V TTL	0~800,000 pcs/ft ³ 0~300 μg/m ³	±15%	Superior noise tolerance Auto gain system LED control

Laser Particle Sensor

Laser particle sensor detects the dust particle concentration in air by using optical sensing method. A laser diode and a photo-sensor are optically arranged in this device.

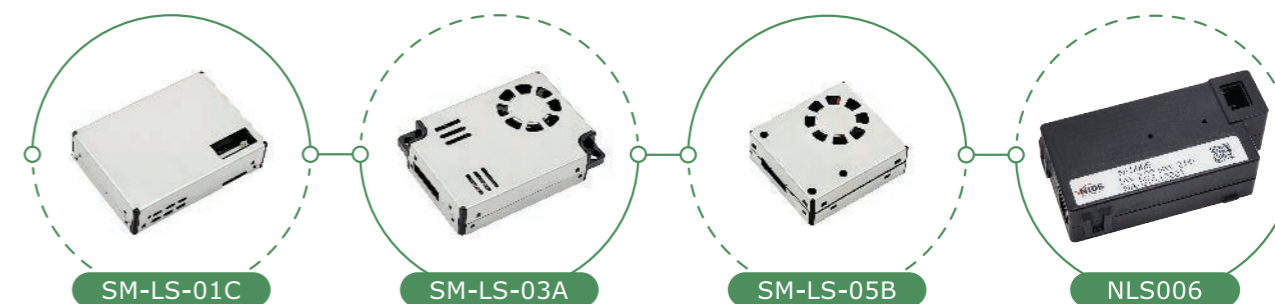
High accuracy laser particle sensor



Test Product
SM-LS-01C

Data output
UART

NIDS Dispersion control
±10%



Model	Size [mm] / Weight [g]	Supply voltage	Output interface	Detection range	Output deviation	Characteristics
SM-LS-01C	49×35×12 / 24	+5V input	UART 3.3V TTL	0~1,000 μg/m ³	±10 μg/m ³ @ <100 μg/m ³ ±10% @ ≥100 μg/m ³	PM 1.0/2.5/10 Long lifetime
SM-LS-03A	49×35×12 / 24	+5V input	UART 3.3V TTL	0~1,000 μg/m ³	±10 μg/m ³ @ <100 μg/m ³ ±10% @ ≥100 μg/m ³	PM 1.0/2.5/10 Screw hole
SM-LS-05B	35×31×12 / 20	+5V input	UART 3.3V TTL I ² C	0~1,000 μg/m ³	±10 μg/m ³ @ <100 μg/m ³ ±10% @ ≥100 μg/m ³	PM 1.0/2.5/10 Compact size
NLS006	82.5×40×24 / 38	+12V input	LIN	0~500 μg/m ³	±10 μg/m ³ @ <100 μg/m ³ ±10% @ ≥100 μg/m ³	For automotive Released in 2022
NLS007	110×45×40 / 50	+12V input	LIN	0~500 μg/m ³ 400~5,000 ppm (CO ₂)	±10 μg/m ³ @ <100 μg/m ³ ±10% @ ≥100 μg/m ³ ±5% ±50 ppm (CO ₂)	For automotive Multi sensor module (Particle+CO ₂) Released in 2022