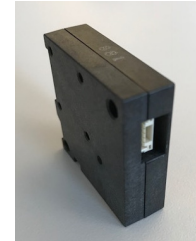


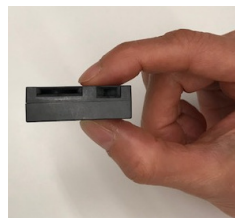
SN-GCJA5 Particulate Matter Laser Sensor

- On board Laser Diode provides Particulate Matter detection for indoor air quality ($\pm 10\%$, from low to high concentrations $\sim 1,000 \mu\text{g}/\text{m}^3$)
- Output mass-density value of PM1.0, Pm2.5 and PM10 ($\mu\text{g}/\text{m}^3$)
- Minimum detectable particle: $0.3\mu\text{m}$
- Very small footprint: $37\times 37\times 12\text{mm}$
- Weight: 13g
- Extended lifetime optimized by S/W control
- Optimized air pathway design to minimize dust accumulation
- High S/N

NEW



■ SN-GCJA5



Power supply voltage	5.0V ($\pm 10\%$)
Consumption current	Below 100mA
Minimum detectable particle	$0.3\mu\text{m}$
Indicatable range	(UART) $0\mu\text{g}/\text{m}^3 \sim 2,000\mu\text{g}/\text{m}^3$ (I ² C) $0\mu\text{g}/\text{m}^3 \sim x,xxx\mu\text{g}/\text{m}^3$
Maximum consistency error	$\pm 10\%$ $35\mu\text{g}/\text{m}^3 < , < 1,000\mu\text{g}/\text{m}^3$
Response time	1sec (Time to first reading 8sec)
External interface	I ² C & UART
Size	$W37\times D37\times H12\text{mm}$

■ Typical Sources of Particulate Matter:

- ✓ Dust, fly ash, soot, smoke, aerosols, fumes, mists and condensing vapors
- ✓ Combustion engines (diesel and petrol)
- ✓ Solid-fuel (coal burning, heavy oil and biomass)
- ✓ Cooking / smoking of plant matter, Fireplaces, Furnaces
- ✓ Construction materials
- ✓ Building, demolition, mining, manufacture of cement and smelting
- ✓ Pavement erosion by road traffic /abrasion of brakes and tires.
- ✓ Agriculture (source of ammonium).
- ✓ Nitrogen oxides (emitted by traffic and industrial processes)
- ✓ Sulfur dioxide (from the combustion of sulfur-containing fuels).
- ✓ Power-plant boilers to ship boilers, central steam-heat boilers
- ✓ Waste incineration / local field burning
- ✓ House and forest fires
- ✓ Etc...

Products and product specifications shown are subject to change without notice.

Please contact your local Panasonic Technical Representative for the most up to date information.

2019 PIDSA/SBDD