

Medical & Health Sensor Solutions

Winsen provides diversified sensor solutions with advanced technology to measure gas flow and concentration, to detect breath smell and breath alcohol for medical equipments and health monitoring devices.



• Gas Flow Measurement

FR03H

Gas Flow Sensor



| | |
|------------------|---|
| Diameter | Ø 3mm |
| Maximum flow | 0.5, 1.2L/min@20°C 101.325kPa |
| Working voltage | 4.9V - 1.4V DC |
| Working pressure | ≤200kPa |
| Output method | Digital IIC and linear analogue voltage |

- High sensitivity, High precision
- Extremely low initial flow rate
- High measurement repeatability

• Gas Flow Measurement

FR15

Gas Flow Sensor



| | |
|------------------|---|
| Diameter | Ø 15mm |
| Maximum flow | 240L/min@20°C 101.325kPa |
| Working voltage | 5V - 14V DC |
| Working pressure | 70kPa - 107kPa |
| Output | Digital IIC and linear analogue voltage |

- Fast response High accuracy
- Very low start-up flows
- High measurement repeatability

• Breath Detection

GM-512B

MEMS Breath Smell Sensor



| | |
|------------------------|----------------------------------|
| Detection gas | H2S, Alcohol, acetone |
| Range | 0.5 - 50ppm (H2S) |
| Loop Voltage | ≤24V DC |
| Sensitivity | R0 (in air)/Rs (in 5ppm H2S) ≥ 2 |
| Standard Encapsulation | Ceramic |

- Small size, High sensitivity
- Low power consumption
- Fast response and resume

• Oxygen Detection

US1010

Ultrasonic Oxygen Sensor



| | |
|-----------------|---|
| Range | concentration 20.5% - 95.6%; flow 0 - 10L/min |
| Resolution | concentration 0.1%; flow 0.1L/min |
| Working voltage | 4.5 - 13.2V |
| Output | UART (3.3V) |
| Lifespan | ≥ 5 years |

- Real-time response, High precision
- Good stability, long lifespan
- Calibration-free, LED indicator light

• Oxygen Detection

MED-O2-LA/LB

EC Oxygen Sensor



| | |
|------------------------|--|
| Range | 0 - 100% VOL O2 |
| Anticipated using life | 1.5x10 ⁶ O2 hours (20°C) 0.8x10 ⁶ O2 hours (40°C) |
| Response time | T90 < 15S |
| Sensitivity | 8 - 15mV (in air) |
| Interface | PN 5520257-2, 3.5mm TRS |

- Low consumption
- High precision, Wide linear range
- Excellent repeatability and stability

• Alcohol Detection

ME2-C2H5OH -Φ16

EC Alcohol sensor



| | |
|------------------|------------------------------|
| Range | (0 - 1.0)mg/L, max. 2.0 mg/L |
| Sensitivity | (6 ± 2)μA/(mg/L) |
| Response time | T90 < 20S |
| Repeatability | ± 0.006mg/L |
| Anticipated life | 2 years (in air) |

- Low consumption, High precision
- High sensitivity, Wide linear range
- Excellent repeatability and stability



Ventilator



Anesthesia Machine



Oxygen Concentrator



Thermometer



Breath Test

