

Medical & Health Sensor Solutions

Winson 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	5L/min @20°C 101.325kPa
Working voltage	4.9V - 1.4V DC
Working pressure	≤200kPa
Output method	Digital IIC or linear analog 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	5 V - 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 5ppmH2S) ≥ 2
Standard Encapsulation	Ceramic

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

• Oxygen Detection

US1001

Ultrasonic Oxygen Sensor



Range	concentration 20.5% - 96.6%; 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

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	P/N 5520257-2

- 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

Winson Products

7 Categories **200+** Series **300+** Detection Indicators

Gas Sensor(semiconductor, catalytic, electrochemical, NDIR), Photoelectric Sensor, Gas Flow Sensor, Humidity Sensor, Particulate Matter Sensor, Pressure Sensor, Water Quality Sensor and Sensing Solutions.