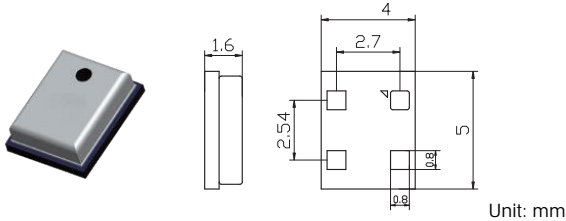


Gas Sensor Guide

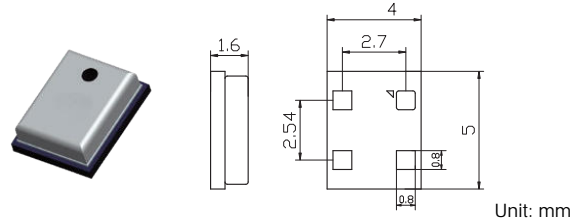
BGS10 TVOC chip



Performance index

- Supply Voltage : $3.0 \pm 0.1\text{VDC}$
- Supply current : $28 \pm 5\text{mA}$
- Detection concentration : $0 \sim 99999\text{ppb}$
- Typical accuracy : 25% reading ($25^\circ\text{C}/50\%\text{RH}$)
- Typical power : 75mW
- Output signal : I²C slave mode
- Calibration : Fully calibrated
- Aadvantage : Rapid response, fast recovery time, strong anti-interference ability

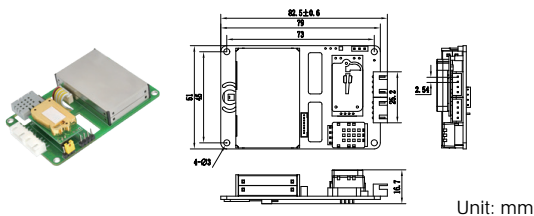
BGS10ET Ethanol sensor



Performance index

- Supply Voltage : $3.0 \pm 0.1\text{VDC}$
- Supply current : $28 \pm 5\text{mA}$
- Detection concentration : $0 \sim 99999\text{ppb}$
- Typical accuracy : 25% reading ($25^\circ\text{C}/50\%\text{RH}$)
- Typical power : 75mW
- Output signal : I²C slave mode
- Calibration : Fully calibrated
- Aadvantage : Rapid response, fast recovery time, strong anti-interference ability

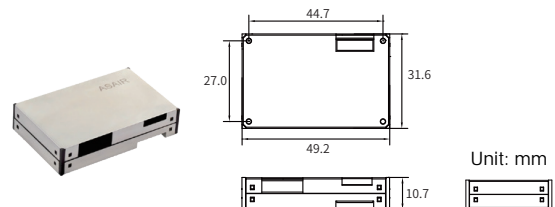
BEM1000 Environmental monitoring box



Performance index

- Supply Voltage : 5.0V DC
- Supply current : 140mA@5V
- Typical power (power supply) : 700mW@5V
- Data update cycle : 1s/time
- Output mode : RS485/UART
- Preheating time : $\geq 120\text{s}$
- Humidity Range : 5~80%RH
- Temperature Range : $10 \sim 50^\circ\text{C}$
- Calibration : Fully calibrated
- Aadvantage : Preheating time, rapid response, strong anti-interference ability

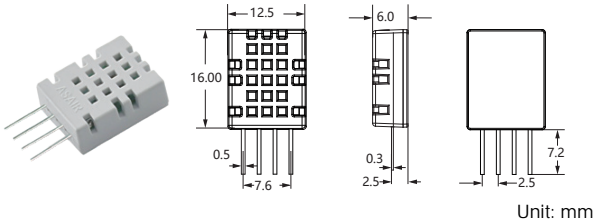
BMP10 Laser Particle Matter Sensor



Performance index

- Supply Voltage : 4.75~5.25V
- Supply current : 50mA (Typical)
- Measuring Range: $0.3 \sim 10\mu\text{m}$
- Typical accuracy : $15\mu\text{g}/\text{m}^3 (0 \sim 100\mu\text{g}/\text{m}^3)$
+15% read($100 \sim 1000\mu\text{g}/\text{m}^3$)
- Particle concentration range: $0 \sim 1000\mu\text{g}/\text{m}^3$
- Operating temperature : $-10 \sim 50^\circ\text{C}$
- Storage temperature : $-30 \sim +70^\circ\text{C}$
- Aadvantage : Standard digital output, full metal shield housing, anti-interference performance is stronger

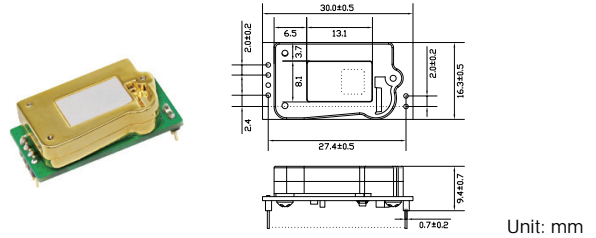
BGS02MA TVOC gas sensor



Performance index

- Supply Voltage : 3.3~5.5V
- Supply current : $28 \pm 5\text{mA}$
- Measuring range : 0~99999ppb
- Typical accuracy : 25% reading (25°C/50%RH)
- Output mode : I²C slave mode (less than 30KHz)
- Humidity Range : 0~95%RH
- Temperature Range : 0~50°C
- Aadvantage : Fast response, high sensitivity, fast response and recovery time

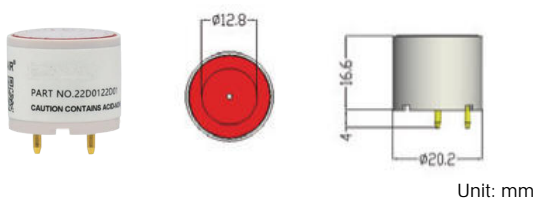
BCD10 Infrared carbon dioxide sensor



Performance index

- Supply Voltage : 4.75~5.25V
- Supply current : Average current <45mA
- Typical power : 225mW @5V
- Measuring range : 400~5000ppm
- Accuracy : $\pm(50\text{ppm}+5\%)$
- Humidity Range : 0~95%RH (non-condensing)
- Temperature Range : 0~50°C
- Aadvantage : Rapid response, fast recovery time, strong anti-interference ability

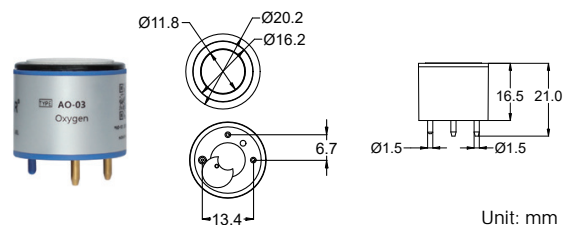
BCM2000 Carbon monoxide sensor



Performance index

- Measuring range : 0~500ppm
- Upper limit of measurement : 1000ppm
- Sensitivity : >15nA/ppm
- Response time (T90) : 45s (0 to 50ppm)
- Repeatability : 5% (output value)
- Resolution : 1ppm
- Aadvantage : Stable signal output, fast response, low power consumption

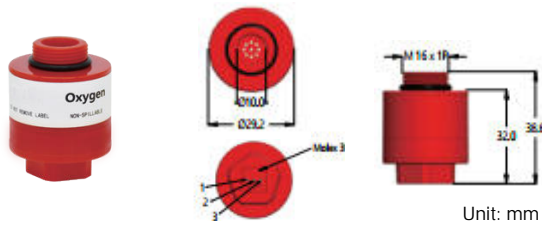
BO-03 Oxygen sensor



Performance index

- Output current : $0.1 \pm 0.03\text{mA}$ (in air)
- Measuring range : 0~25%
- Upper limit of measurement : 30%
- Response time (T90) : <15s
- Working pressure range : Atmospheric pressure $\pm 20\%$
- Humidity Range : 0~99%RH (non-condensing)
- Temperature Range : 0~50°C
- Linear output : 0~25%
- Aadvantage : Fast response, accurate and reliable, light-weight and compact

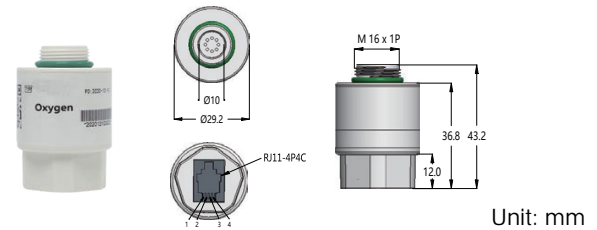
BO-02 Full range oxygen sensor



Performance index

- Output current : 9~13mV(in the air)
- Measuring range : 0~100%
- Temperature compensation : <2%O₂ equivalent (0~40)
- Response time (T90) : <15s
- Working pressure range : 0.5~2.0Bar
- Humidity Range : 0~99%RH (non-condensing)
- Temperature Range : 0~50°C
- Interface type : Molex 3 pin connector
- Aadvantage : Fast response, accurate and reliable, strong anti-interference ability

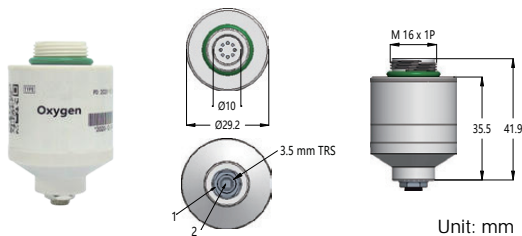
BO-07 Full range oxygen sensor



Performance index

- Output current : 9~13mV(in the air)
- Measuring range : 0~100%
- Temperature compensation : <2%O₂ equivalent (0~40)
- Response time (T90) : <15s
- Working pressure range : 0.5~2.0Bar
- Humidity Range : 0~99%RH (non-condensing)
- Temperature Range : 0~50°C
- Interface type : RJ11-4P4C
- Aadvantage : Temperature compensation, fast response, accurate and reliable, strong anti-interference ability

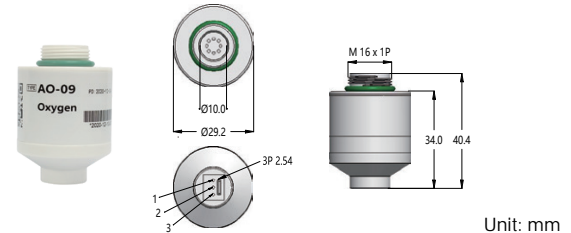
BO-08 Full range oxygen sensor



Performance index

- Output current : 9~13mV(in the air)
- Measuring range : 0~100%
- Temperature compensation : <2%O₂ equivalent (0~40)
- Response time (T90) : <15s
- Working pressure range : 0.5~2.0Bar
- Humidity Range : 0~99%RH (non-condensing)
- Temperature Range : 0~50°C
- Interface type : 3.5 mm TRS
- Aadvantage : Temperature compensation, fast response, accurate and reliable, strong anti-interference ability

BO-09 Full range oxygen sensor



Performance index

- Output current : 9~13mV(in the air)
- Measuring range : 0~100%
- Temperature compensation : <2%O₂ equivalent (0~40)
- Response time (T90) : <15s
- Working pressure range : 0.5~2.0Bar
- Humidity Range : 0~99%RH (non-condensing)
- Temperature Range : 0~50°C
- Interface type : 3P 2.54
- Aadvantage : Temperature compensation, fast response, accurate and reliable, strong anti-interference ability

DISCLAIMER

Warning

LIFE OR PROPERTY RISK

- Please ensure that this product has been designed as part of whole system and already considered related risks, make sure the product has the correct ratings and is designed based on the entire system. It must not be used when applications related to serious life or property damage risks.

Failure to follow this instruction can result in death or serious injury.

Warning

PERSONAL INJURY

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to follow this instruction can result in death or serious injury.

Warning

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to follow this instruction can result in death or serious injury.

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