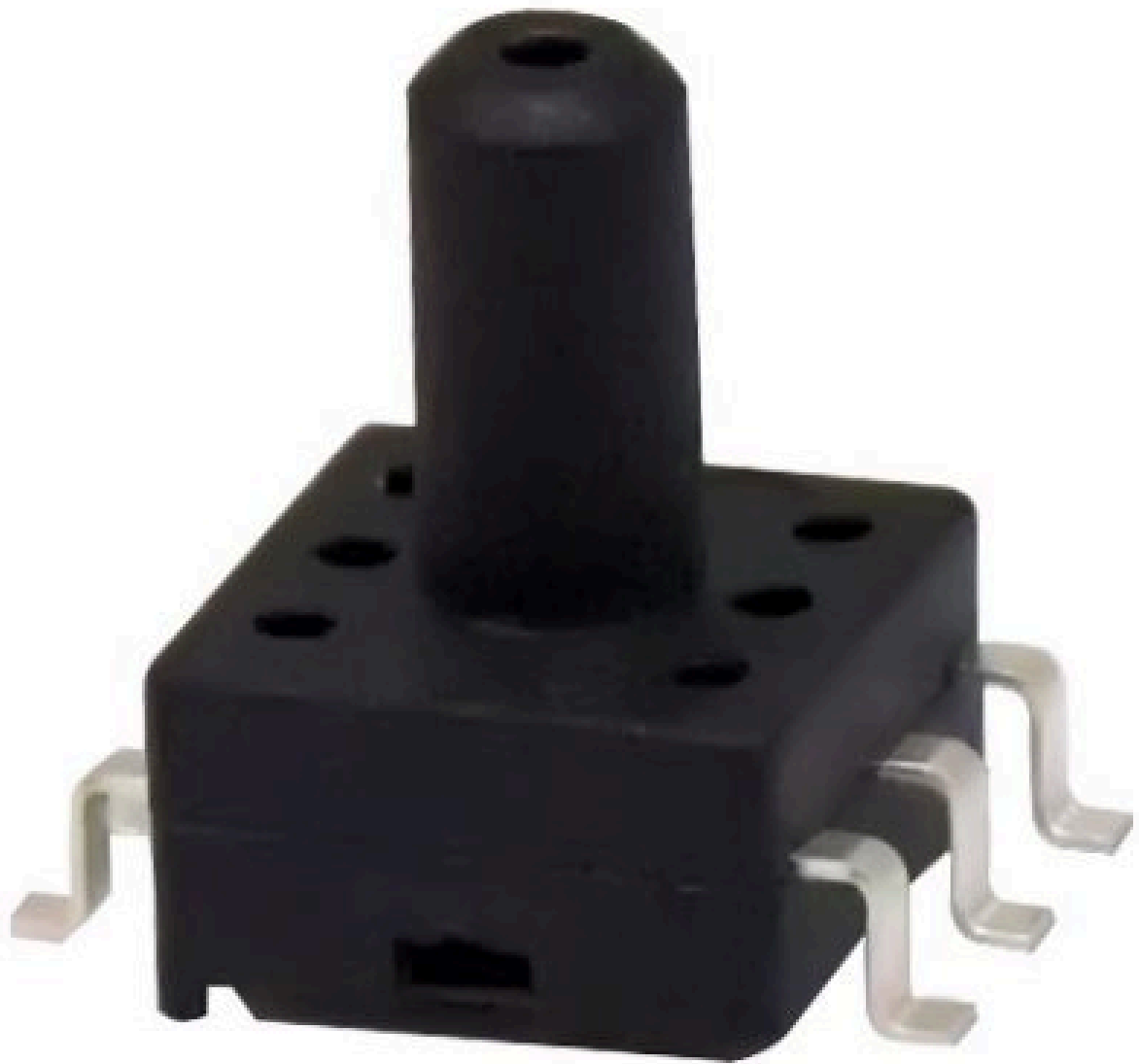




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AGR10 Gauge Pressure Sensor

- Rapid response
- Stable signal output
- Excellent long-term stability
- SOP6 packaging form
- Flexible pin definition

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CATEGORY: SURFACE PRESSURE

DESCRIPTION

ADDITIONAL INFORMATION

1.Product summary

ASAIR AGR10 series sensors are suitable for piezoresistive pressure sensitive chips processed using MEMS technology in biomedicine, vacuum negative pressure and home appliances. The chip consists of an elastic membrane and four varistors integrated on the membrane. The four varistors form the Wheatstone bridge structure. When the pressure acts on the elastic film, the bridge will generate a

voltage output signal that is linearly proportional to the applied pressure. The pressure value can be calculated by measuring the output voltage of the Wheatstone bridge. The ASAIR AGR10 series is packaged in standard SOP6 form for easy use of SMT.

2.Application

Medical: blood pressure monitor, ventilator, oxygen generator, nebulizer, monitor, etc. Industrial application: negative pressure measurement, pressure instrument, etc. Home appliances: washing machine, beer machine, coffee machine, vacuum cleaner, water purifier, water heater, etc. Vacuum negative pressure: vacuum packaging machine, vacuum mixer, vacuum wall breaking machine, vacuum fresh-keeping box, vacuum pump, etc.

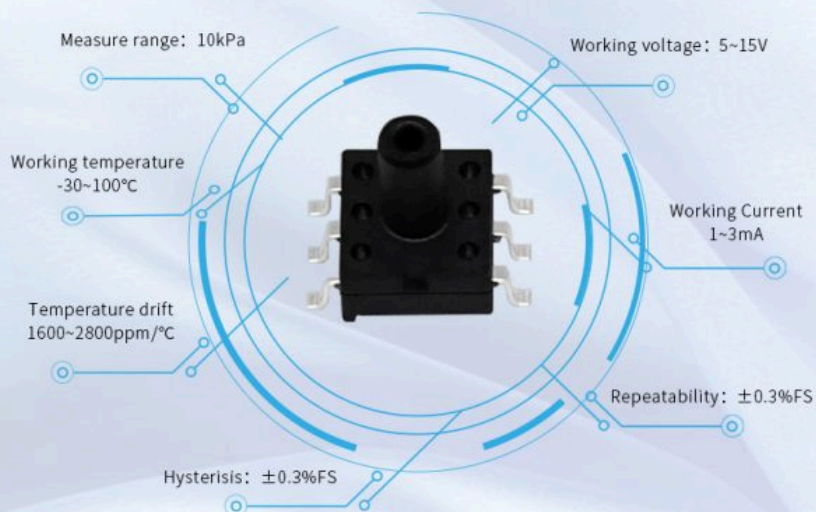
Gauge Pressure Sensor

- ✓ Rapid response
- ✓ Stable signal output
- ✓ Excellent long-term stability
- ✓ Flexible pin definition



AGR10 Gauge Pressure Sensor SOP6 packaging form

AGR10 gauge pressure sensor is suitable for biomedical, automotive electronics and other fields, the core is a piezoresistive pressure sensitive chip with MEMS technology processing. The chip consists of an elastic membrane and four varistors integrated on the membrane. AGR10 pressure sensor adopts the standard SOP6 form package, convenient for users to use surface mounting installation, it has good linearity, repeatability, stability and high sensitivity, convenient for users to debug and compensate for output and temperature drift.



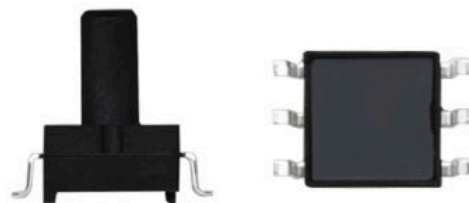
Medical application: Biomedical, electronic manometer, medical ventilator, oxygen generator, atomizer, monitor and etc.

Industrial application: negative pressure measurement, pressure gauges, vacuum packaging machine, vacuum mixer, vacuum broken machine, vacuum container, vacuum pump, etc

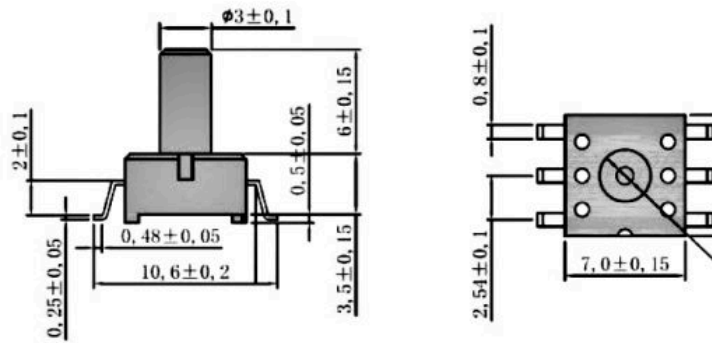
Home appliances: washing machine, beer machine, coffee machines, vacuum cleaners, water purification machines, water heaters and etc.



ASAIR SPECIFICATIONS >>



Model	AGR10
Working voltage	5~15V
Working Current	1~3mA
Working temperature	-30~100°C
Measure range	10kPa
Output range	35~65mV
Bridge arm resistance	4000~6000Ω
Temperature drift	1600~2800ppm/°C
Full-range temperature coefficient	-0.26~-0.1(%FS/°C) constant voltage ±0.05(%FS/°C) constant current
Non-linearity(≤10kPa)	-1~0.1%FS
Non-linearity(≥40kPa)	±0.3%FS
Long-term stability	0.2%FS/Y
Hysteresis	±0.3%FS



AGR10 Dimensions (Unit: mm)

AGR10

Don't hesitate to e-mail us with any questions or inquiries, we should be happy to answer your question.

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