



RH&T



Flow



Gas



Photoelectric



Pressure

New Product Catalog

MEMS IDM

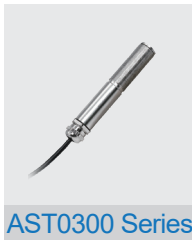
Expert in Smart Sensor Solutions



Guangzhou Aosong Electronic Co.,Ltd

Quarter2 (April to June) 2025

RH%T Series

**Non-contact Infrared Thermometer**

Supply Voltage:8~24VDC
Output Signal:4~20mA
Measuring Range:0-300 C
Spectral Range:8~14um
Response Time:500ms
Temp.Measurement Accuracy:
 $\pm 2\%$ (measured value)or ± 2 C (max value)

AST0300 Series

Gas Sensors

**Optical refrigerant sensor**

Operating Current:<45mA
Operating Voltage:4.75-5.25V
Typical Power:100mW@5V
Measuring Range:0~25%(0~36000ppm)LFL
Accuracy: $\pm 2.5\%$ LFL
Size:33*22*14.5mm

ACD4100

**Refrigerant sensor**

Measurement Range:50~5000ppm
1~25%LEL
Operating Voltage:4.75-5.25VDC
Sampling Cycle: $\geq 2s$
Operating Current:24 \pm 4mA
Typical Accuracy : $\pm(50ppm+40\%RD)$,
 $\pm(1\%LEL+40\%RD)$ (25 C /50%RH)
Output Interface:1PC
Size:12*12*16.4mm

AGS05 series

Gas Sensors

**PPM Micro Oxygen Sensor**

MEAS.Range:0~10ppm(min)
0~10,000ppm(max)
Accuracy: $\pm 2\%$ F.S.
Response Time T90:<7s
Operating Pressure Range: 0.8~1.2bar
Expected Lifetime:18~24 Months
Operating Environment:0~45 C,
0~99%RH(non-condensing)
Size:32*20*20mm

AOP10

Flow Series

**Vortex Water Flow Sensor**

Operating Voltage:12~24V
Accuracy (50%of range)
Reading $\times \pm 2$
Operating Current:<20mA
Ambient Temp.:~30~+65 C
Medium Temp.:~20~+90C
Electrical Connection:5-pin plug M12x1

AFD3 series

**Vortex Water Flow Sensor**

Power Supply:18~28VDC
Range:2~16 L/min,5~40 L/min,10~100L/min
Repeatability:<2.0%
Medium temperature:
0~90 C (No freezing or condensation)
Accuracy:<3.0%F.S (FLOW)
 $\pm 5\%$ F.S.MAX.(@25 C)(TEMP)
Environment temperature:-10~+65C
Size: 131*45*78mm

AFD4 series

**Vortex Liquid Flow meter**

Power Supply:18~28VDC
Range:2~16 L/min,5~40 L/min
Repeatability:<2.0%
Medium temperature:
0~90 C (No freezing or condensation)
Accuracy:<3.0%F.S (FLOW)
 $\pm 5\%$ F.S.MAX.(@25 C)(TEMP)
Environment temperature:-10~+65C
Size:131*45*78mm

AFD4(Needle Valve)

**Vortex Water Flow Sensor**

Range:0.5~4,50-250L/min
Power Supply:18~28VDC
Repeatability:<2.0%
Medium Temperature:
0~90 C (No freezing or condensation)
Accuracy:< $\pm 3.0\%$ F.S(FLOW)
 $\pm 5\%$ F.S.MAX.(@25 C)(TEMP)
Environment Temperature:-10~+65C

AFD5 series

**Vortex Liquid Flow meter**

Range:0.5~4L/min
Power Supply:18~28VDC
Repeatability:<2.0%
Medium Temperature:
0~90 C (No freezing or condensation)
Accuracy:< $\pm 3.0\%$ F.S(FLOW)
 $\pm 5\%$ F.S.MAX.(@25 C)(TEMP)
Environment Temperature:-10~+65C

AFD5(Needle Valve)

**Mass Flow Meter series**

Output:RS485,
NPN Open Collector Output;
1~5V or 4~20mA Linear Analog Output
Power Supply:9~24V DC
Max Working Pressure:0.8MPa
Display:LCD
Accuracy: $\pm 4\%$ RD、 $\pm 2\%$ RD
Range:0.02~2L/min to 5~500L/min
Size:98.6*50*82.77mm

AMS1000 series

**Mass Flow Meter series**

Power Supply:9~24V DC
Range:0.5~50,1~100,2~200,
4~300,5~500L/min
Output:RS485
Accuracy: $\pm 3\%$ F.S.
Max Working Pressure:0.8 Mpa
Operating Temp:-10~+60 C
Size:80*30*52.5mm

AMS2000 series

**Mass Flow Meter**

Power Supply:9~28V DC
Range:10~1000,20~2000,30~3000,
60~6000L/min
Work Temp:0-50 C
Accuracy: $\pm 3\%$ F.S.
Work Pressure:0.1~1.5MPa
Output:RS485,NPN Open Collector Output,
1~5V Linear Analog Output
Size:130*40*78.1mm

AMS3 series

**Gas Mass Flow Meter**

Output:NPN Open Collector Output,
RS485,1~5V Linear Voltage Output
Operating Voltage:9~28V DC
Max.Working Pressure:0.8MPa
Accuracy: $\pm 3\%$ F.S.
Operating Temperature:-10~+60 C
Range(L/min):0.02~2,0.1~10,0.25~25,
0.5~50,1~100,2~200
Size:68.5*18*43mm

AFM07 Series

**Gas Mass Flow Meter**

Output:NPN Open Collector Output,
RS485,1~5V Linear Voltage Output
Operating Voltage:9~28V DC
Max.Working Pressure:0.8MPa
Accuracy: $\pm 3\%$ F.S.
Operating Temperature:-10~+60 C
Range(L/min):
0.02~2,0.1~10,0.25~25,
0.5~50,1~100,2~200
Size:66.1*18*43mm

AFM07 Series(G-Thread)

**Gas Mass Flow Meter**

Output:NPN Open Collector Output,
RS485,1~5V Linear Voltage Output
Operating Voltage:9~28V DC
Max.Working Pressure:0.8MPa
Accuracy: $\pm 3\%$ F.S.
Operating Temperature:-10~+60 C
Range(L/min):
0.1~10,0.25~25,0.5~50,1~100
Size:96.4*18*53mm

AFM07 Series(Needle Valve)



AFM17 Series

Gas Mass Flow Meter

Output:NPN Open Collector Output,
RS485,1~5V Linear Voltage Output
Operating Voltage:9~28V DC
Max.Working Pressure:0.8Mpa
Accuracy:±3%F.S,
Operating Temperature:-10~+60 C
Range(L/min):0.02~2,0.1~10,0.25~25,
0.5~50,1~100



AFG2 Series

Gear Flow Sensor

Flow Range:0.55,0.7~13,0.820,
0.5-50,3-60L/min
Power Supply:24V DC
Accuracy:<±1%FS(liquid is water or diesel)
Medium Temp Range:0-80 C
Output:Current , Voltage, Frequency,RS485
Operating Environment:-25~+60 C ;
25~95%RH

Pressure Sensor

ADP900

Differential Pressure Sensor

Measuring Range:-500~+500Pa
Zero Point Precision:0.3Pa
Operating Current:≤12mA
Response time:<2ms
Output:1°C Digital Signal
Accuracy:Readings X 3%
Size:29*18*18.2mm



ADP910

Differential Pressure Sensor

Measuring Range:-500~+500Pa
Zero Point Precision:0.3Pa
Operating Current:≤12mA
Response time:<2ms
Output:1°C Digital Signal
Accuracy:Readings X 3%
Size:29*18*27.7mm



AGR12

Pressure Sensor

Operating Voltage:5V (typical)
Operating Temp.:30 C~100 C
Accuracy:±2.5%Span
Output:0.5~4.5V/1°C
Storage Temp.:30~125 C
OverPressure:
5x (FS=40kPa)%FS,2x(FS≥100kPa)%FS
Size:12*12*19.9mm



AGR09

Gauge Pressure Sensor

Standard Range:10,40,100kPa
Power Supply(CV):5~12.5V
Operating Temperature:-30~+100°C
Power Supply(CC):1~2.5mA
Storage Temperature:-40~+120 C
Repeatability:±0.15%FS(Typical)
Hysteresis:+0.15%FS (Typical)



APR10 Series

Differential Pressure Sensor

Supply Voltage:4.75~5.25V
Accuracy Error:2.5%FS
Resolution:14 Bits
Storage Temperature:-40~+125°C
Average Operating Current:1mA
Operating Temperature:-30~+105 C

Vacuum Gauge

AGP3000H02

Pirani Vacuum Gauge

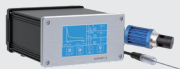
Power:9~28V
Range (N₂ and Air):5×10⁻²~1.2×10³Pa
Load Pressure:130KPa
Power Dissipation:<1.2W
Working Temperature:0~40 C
Accuracy (N₂):
5×10⁻²~1×10⁻¹Pa(Reading±50%)
1×10⁻¹~1.5×10⁰Pa(Reading±15%)
1.5×10⁰~1.2×10³Pa(Reading±0.5%)
Size:67.5*40*40mm



AGP4000

Pirani and Cold Cathode Combined Vacuum Gauge

Supply Voltage:15~30VDC
Range(N₂&air):1×10⁻⁶~1×10⁶Pa
Power Dissipation:≤6W
Accuracy(N₂):±30%
Repeatability(N₂):±5%
Operating Temperature:5~55 C
Size:114*Φ62
Size: 40*40*67.5mm

Instrumentation Series

ACM483T-A

Chilled Mirror Hygrometer

Dew point/Frost point Range:-40~+80C
Dew point/Frost point Accuracy:±0.15C
Operating Environment:-20~+50 C ,
10-90%RH
Temperature Accuracy:-45~+90 C
Power:AC 100~240V 35W or
USB Type-C 5V/2A 10W
Temperature Measurement Range:±0.05 C
Size:168*160*131mm



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