



Product Name	GAOTek Portable Digital Hot Wire Anemometer
Product SKU	GAOTek-ATI-128
Product URL	https://gaotek.com/product/gaotek-portable-digital-hot-wire-anemometer/

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Based in New York City & Toronto, GAO Tek Inc. is ranked as one of the top 10 global B2B technology suppliers. GAO ships overnight within the U.S. & Canada & provides top-notch support thanks to its 4 decades of experience.



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GAOTek Portable Digital Hot Wire Anemometer

1. General Description



This hot wire thermo-anemometer is ideal for low air velocity and volume measurement. The slim plug in telescopic hot wire probe extends from 0.26 to 1.2m (inc handle) has a probe sensor head 8.5mm and is ideal for grille hoods and diffusers. It is excellent for ventilation surveys, air conditioning, clean rooms, flow hoods, air balancing and environmental monitoring.



2. Safety

Read the following safety information carefully before attempting to operate or service the meter. Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

- **Environment conditions:**

RH≤90% (Non-Condensation)

Operating Temperature: -10°C ~ 60°C

- **Maintenance**

Repairs or servicing not covered in this manual should only be performed by qualified personnel. Wipe the unit with a dry soft cloth. Do not use abrasives or solvents on this instrument.



- **Safety Symbol**
CE Comply with EMC

3. Features

- Can detect very low air velocity measurements
- Slim probe, ideal for grilles and diffusers.
- Combination of hot wire and standard thermistor, delivers rapid and precise measurements even at low air velocities.
- Records Maximum and Minimum readings
- Large LCD with a dual display showing both air velocity and temperature simultaneously.
- Measures air velocity in m/s, km/h, ft/min, MPH or knots
- Measures air volume in CFM (ft³/min) or CMM (m³/min)
- Measures air temperature in °C or °F
- Data Hold
- High accuracy for low wind speed measurement
- Slim probe for narrow space's wind speed/wind flow
- 2.7 inches double line display with backlight
- Built-in temperature sensor, fast response of temperature measurement
- Selectable Wind speed unit/temperature unit



4. Specification

Air Velocity Measurement			
Unit	Range	Resolution	Accuracy
m/s	0.1~35.0 m/s	0.01m/s	(5%+1dgt) of readings or (1%+1dgt) of full scale
km/hr	0.3~122.5 km/h	0.1km/hr	
ft/min	20~6889 ft/min	0.1fit/min	
MPH	0.2~78.2 MPH	0.01 MPH	
Knots	0.2~68 knots	0.1 knots	
Temperature Measurement			
Unit	Range	Resolution	Accuracy
°C	0°C~50°C	0.1	±1.0°C
°F	32°F~122°F	0.1	±1.8°F
CFM/CMM Measurement			
Unit	Range	Resolution	
CFM	0~99999 ft3/min	0.001 to 100	
CMM	0~99999 m3/min	0.001 to 100	

General Specification	
Display	55mm dual LCD display
Sampling time	Approx 0.8sec
Auto power off	Approx. 20 min
Operating	0°C~50°C/32°F~122°F
Operating humidity	< 80%RH
Power supply	7.2V Rechargeable Lithium battery (non-detachable)
Weight	Lithi
Dimension	185×66×33mm

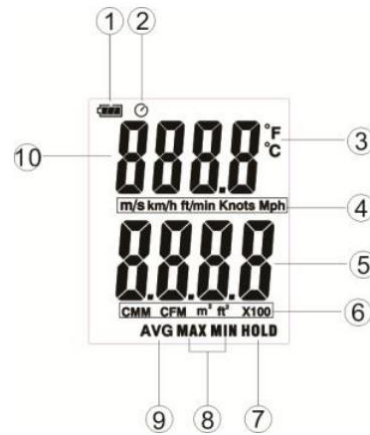
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CFM (ft³/min) =air velocity (ft/min) x area(ft²)

CMM (m³/min) =air velocity (m/s) x area(m²) x 60

5. LCD Display Description

1. Low battery indication
2. Auto power off icon
3. Temperature units
4. Air velocity units
5. Air velocity or volume readings
6. Air volume units
7. Hold icon
8. MAX/MIN icon
9. AVG icon
10. Temperature readings



6. Meter Description

1. Probe connector
2. LCD Display
3. SET key
4. Temperature units key
5. Average/Up key
6. MAX/MIN key
7. Velocity units /Down key
8. Power on/off key
9. Data Hold key
10. Probe connector
11. Probe handle
12. Probe tip





- 10. Backlight key
- 11. Probe handle
- 12. Air velocity/temperature sensor

7. Operating Instructions

- Power ON/OFF: Press button to turn the meter on or off.
- Change temperature units: Press to select °C or °F .
- Area Setting: Turn the meter on, then press and hold until “unit” appears on the LCD. Then press to select area unit ft² or m². After selecting the area unit, press again , “ArEA” will appear on the LCD



Set the area values from 0.001 ~ 9999 by pressing or . Press to change the position of the decimal place.







- Sleep Mode On/Off: After setting the area, press and “SPL” will appear on the LCD display.






Press to select ON (sleep mode on) or OFF (sleep mode off) after selecting the sleep mode on or off, long press key, the meter will automatically save the new settings and exit setting mode.

Note: The default mode is sleep mode on. In sleep mode on, the meter will automatically shut off after approximately 20 minutes of no activity. In sleep mode off, the meter will stay on continuously, until the user turns the meter off using the power button .



- Backlight: Press  to turn the backlight on or off.
- AVG: Press  to enter average measuring mode.
- MAX/MIN: Press  and "MAX" icon appears on the LCD to view the current maximum reading. Press  again "MIN" icon will appear to view the current minimum reading.
- HOLD: Press  to freeze the readings on LCD display.
- Units Selection: Press  to select desired measuring units for air velocity or air flow area or volume.

8. Operating Procedure

1. Connect the hot wire probe
2. Power on the meter by pressing the power  button.
3. Select the desired air velocity units and temperature units
4. Zero setting: When use the meter for the first time, if reading is not “0” before remove the cover of sensor, keep pressing “” for 2s till 0:000 shows on LCD. Cautions: a. hand can’t touch the sensor cover during zero setting b. zero setting can’t be made immediately after measuring c. Meter can not be used in low temperature environment after make zero setting in high temperature environment
5. Take the sensor cover off and extend the telescope probe to the convenient length.
6. Direction of the sensor head on the sensor head there is an arrow to indicate which way the probe should be used when taking a measurement. It is important that you check this, if used in the wrong direction you will receive false readings. The upper display will show the air temperature value. The lower display will show the air velocity value.
7. Battery Recharge When the low battery icon "" appears, use the adapter to recharge the battery



9. Accessories

- User Manual
- DC 9V adapter
- Hot wire sensor
- Carry case