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Prospect House  
George Cayley Drive  
Clifton Moor  
York  
England  
YO30 4XE

Tel: +44 (0) 1904 692723  
Fax: +44 (0) 1904 690385

E-Mail: [sales@yorksurvey.co.uk](mailto:sales@yorksurvey.co.uk)



## Hot Wire Thermo-Anemometer



**Code: 330670**

## Operating Instructions

ET-961  
Hot Wire Thermo-Anemometer  
User Manual



Please read this user manual thoroughly before using this meter and store it for future reference.

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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 8.5mmØ 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. Features

- Can detect very low air velocity measurements
- Slim probe, ideal for grilles and diffusers.
- Combination of hot wire and standard thermistor, deliver rapid and precise measurements even at low air velocities.
- Records Maximum and Minimum readings
- Large LCD with dual display showing both air velocity and temperature simultaneously.
- Measures air velocity in m/s, km/hr, ft/min, MPH or knots
- Measures air volume in CFM (ft<sup>3</sup>/min) or CMM (m<sup>3</sup>/min)
- Measures air temperature in °C or °F
- Data Hold

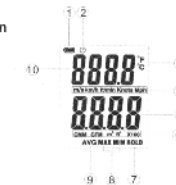
3. Specifications

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	1ft/min	
MPH	0.2~78.2 MPH	0.1MPH	
Knots	0.2~68 knots	0.1knots	
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 ft <sup>3</sup> /min	0.001 to 100	
CMM	0 ~ 99999 m <sup>3</sup> /min	0.001 to 100	
General Specifications			
Display	55mm dual LCD display		
Sampling time	Approx. 0.8sec		
Auto power off	Approx. 20 min		
Operating Temperature	0°C ~ 50°C / 32°F ~ 122°F		
Operating Humidity	< 80%RH		
Power supply	LR61 9V battery		
Weight	310g		
Dimension	185×66×33mm		

CFM(ft<sup>3</sup>/min)=air velocity(ft/min) x area(ft<sup>2</sup>)  
CMM(m<sup>3</sup>/min)=air velocity(m/s) x area(m<sup>2</sup>) x 60

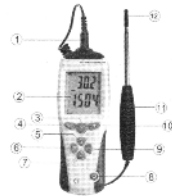
4. LCD Display Description

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



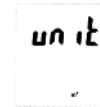
5. Meter Description

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



6. Operating Instructions

- 6.1. **Power ON/OFF:** Press button to turn the meter on or off.
- 6.2. **Change temperature units:** Press to select °C or °F.
- 6.3. **Area Setting:** Turn the meter on, then press and hold until "unit" appears on the LCD.



Then press to select area unit ft<sup>2</sup> or m<sup>2</sup>. 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.

6.4. **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 .

6.5. **Backlight:** Press to turn the backlight on or off.

6.6. **AVG:** Press to enter average measuring mode.

6.7. **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.

6.8. **HOLD:** Press to freeze the readings on LCD display.

6.9. **Units Selection:** Press to select desired measuring units for air velocity or air flow area or volume.

7. Operating Procedure

7.1. Connect the hotwire probe ( **Note : Battery and power adapter cannot be used at the same time. Using them at the same time will damage the circuit board and invalidate the warranty** )

7.2. Power on the meter by pressing the power button.

7.3. Select the desired air velocity units and temperature units

7.4. Zero setting:

- a) Put the sensor cover over the sensor to isolate the sensor from the environment.
  - b) Keep pressing the "HOLD" key for around two seconds to zero air velocity.
- 7.5. Take the sensor cover off and extend the telescope probe to the convenient length.

7.6. **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.

8. Accessories

- 1). User Manual
- 2). 9V battery
- 3). AC/DC 9V adapter
- 4). Hot wire sensor
- 5). Carry case

