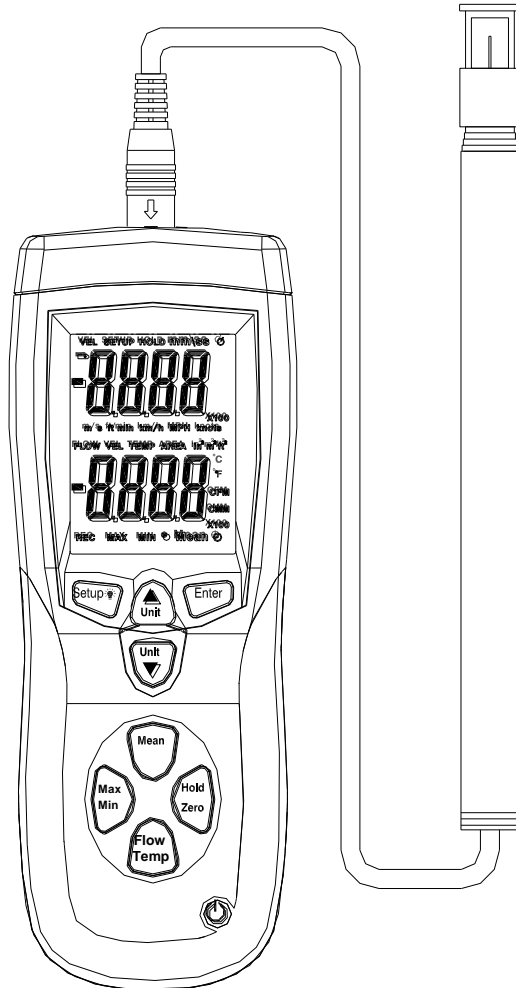


TA 888 N

Hot Wire Anemometer



Your purchase of this HOT WIRE ANEMOMETER makes a step forward for you into the field of precision measurement.

Although this ANEMOMETER is a complex and delicate instrument, its durable structure will allow many years of use if proper operating techniques are developed. Please read the following instructions carefully and always keep this manual within easy reach..

Features

1. Thermal anemometer, available for very low air velocity measurement.
2. Slim probe, ideal for grilles & diffusers.
3. Combination of hot wire and standard thermistor, deliver rapid and precise measurements even at low air velocity.
4. Records Maximum and Minimum readings with recall.
5. Microprocessor circuit assures maximum possible accuracy, provides special functions and features.
6. Super large LCD with dual function meter's display, read the air velocity & temp. at the same time.
7. Records Maximum and Minimum readings with recall.
8. Data Hold.
9. Power supply by 9V battery.
10. The portable anemometer provides fast, accurate readings, with digital readability and the convenience of a remote probe separately.
11. Multi-functions for air flow measurement: m/s, km/h, ft/min, MPH, Knots.
12. Build in temperature measurement.
13. Thermistor sensor for Temp. measurement, fast response time.
14. Used the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.
15. Deluxe hard carry case.
16. Applications: Environmental testing, Air conveyors, Flow hoods, Clean rooms, Air velocity, Air balancing, Fans/motors/blowers, Furnace velocity, Refrigerated case, Paint spray booths.

Specifications



General Specifications


Display	46.7mm × 60 mm larger LCD display. Dual function meter's display.
measurement	m/s (meters per second) km/h (kilometers per hour) ft/min (feet per minute) MPH (miles per hour) knots (nautical miles per hour) Temp. ---°C , °F Data hold.
Memory	Maximum and Minimum with recall
Sampling	Approx.0.8 sec
Operating Temperature	0 °C to 50 °C (32°F to 122°F)
Operating Humidity	Less than 80% RH
Power Supply	9V battery
Power Current	Approx. DC 60~90mA
weight	280g
Dimension	210mm×75mm×50mm
Accessories included	Hot wire sensor 9V battery



Electrical Specifications



Air Velocity			
Measurement	Range	Resolution	
m/s	0.1~15.0m/s	0.01m/s	
km/h	0.3~54.0km/h	0.1km/h	
ft/min	20~2955/min	1ft/min	
MPH	0.2~ 34.8 MPH	0.1MPH	
knots	0.2~29.1knots	0.1knots	
Notes:			
<p>m/s - meters per second, km/h - kilometers per hour,</p> <p>ft/min - feet per minute, MPH - miles per hour,</p> <p>knots - nautical miles per hour</p>			
Temperature			
Measuring Range		0 °C to 50 °C (32°F to 122°F)	
Resolution		0.1°C/0.1°F	
Accuracy		± 1°C/1.8°F	

Button


1, Press . The thermal sensor is heated up (5s). Measurement view is opened: The current reading is displayed, or “———”lights up if no reading is available. Press  again, turn off the instrument.



2, Press  to freeze or unfreeze the displayed readings or air velocity Zero Adjust.

3, Press  to enter a Setup option. Press  again to store the displayed setting in memory.


4, Press  to turn on the backlight. Press it again to turn off the backlight. Press  button for 3 seconds to start or exit Setup. (See "Changing Setup Options.")


5, Press  to scroll to the Setup option you want to change.

Press  to increase the displayed setting.


6, Press  to start recording and press again to stop recording .if enter a Setup option .scroll to the Setup option you want to change. Press  to decrease the displayed setting.

7, performing a multi-point mean calculation or performing a mean calculation in time.

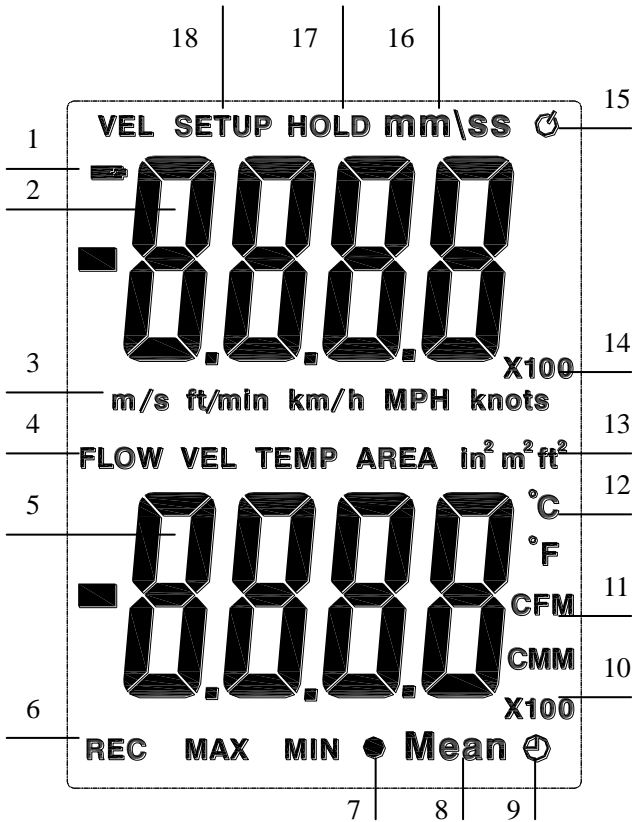
8, Press  to step through the maximum and minimum readings. To exit

the MAN/MIX mode, press the  button for 2 seconds to return to normal operation.

9, To change between displaying the temperature, flow velocity, and

calculated volumetric flow rate: Press .

Display Elements



1. Low Power.
2. Primary Display: air velocity, recording data or time.
3. Air velocity units.
4. Secondly display data.
5. Secondly display: air flow, temperature, or air velocity data.
6. Record MAX, MIN display.
7. Sign of multi-point mean calculation.
8. Mean calculation
9. Sign of mean calculation in time.
10. The multiple of Secondly display data.
11. Flow units.
12. Temperature units.
13. Flow area units.
14. The multiple of Primary display data.
15. The Sign of Auto Power Off.
16. The sign of time.
17. Freezing the data.
18. Entering or Exiting Setup.

Changing Setup Options

Use Setup to change area unit, flow area, sleep mode settings. The thermometer stores the settings in its memory.


Setup Options

Option	Menu item	Settings
Chose area unit	Unit	set area unit
Change the flow area	area	set area of measuring air flow
Auto Power Off mode	SLP	auto off or on



Entering or Exiting Setup


When the thermometer is in Setup mode, the display shows **SETUP**.






Press  button for 3 seconds start or exit Setup.

Changing a Setup Option

1. Press  or  to scroll to the setup option you want to change.

2. Press  to indicate that you want to change this setting.

3. Press  or  until the setting you want to use appears on the display.

2. Press  to store the new setting in memory.

Notes: Setup is disabled in **MIN MAX**, **Mean** mode.

Area unit Setting

1. When the thermometer is in Setup mode, press




or




to scroll to the area unit setup option

(refer Fig.2).

2. Press  button., The string “**AREA**” and area unit shows in the screen.

3. Press or to scroll to unit that you want to change((refer Fig.3).

).

4. Press  to store the new area in memory.

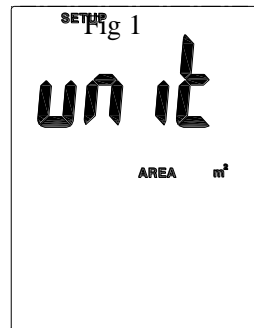
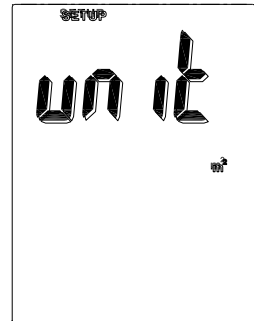










Fig.2


Area Setting



Changing the number digits of area and Change the number value of area. Press  or  to scroll to the area value setup option when the thermometer is in

the setup mode. Press  button, the area number flashes. Press  or  to scroll to digit that you

want to change (refer Fig.3). Press , the screen

indicate that area number with a flashing digit. Press  or  to

change the flashing digit from 0 to 9. Press  to change the station of

flashing digit and press  or  to change the number, the adjust

order is from right to left. Press  to store the new area in memory.

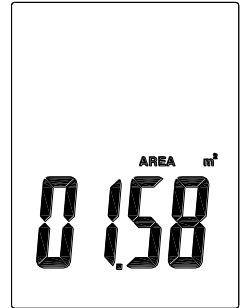
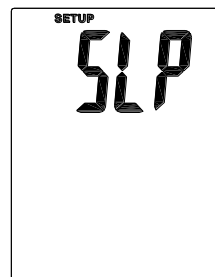



Fig.3



Auto Power Off Mode


The thermometer enters sleep mode (default). That is to say, the meter will automatically shut off after 20 minutes if no button press occurs for 20 minutes. When the thermometer is in Setup mode,

the display shows **SETUP**. Press  or  to



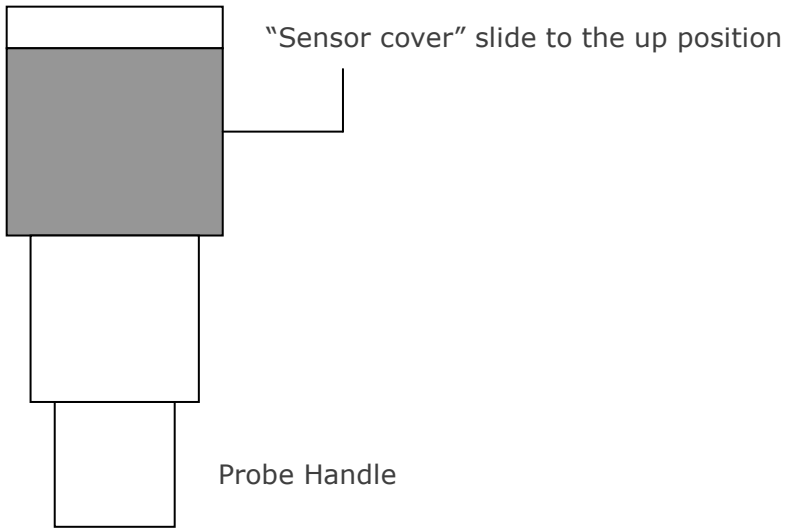
scroll to the “**SLP**” page . Press  to indicate “**On**” or “**OFF**”.

Press  or  until the setting you want to use appears on the

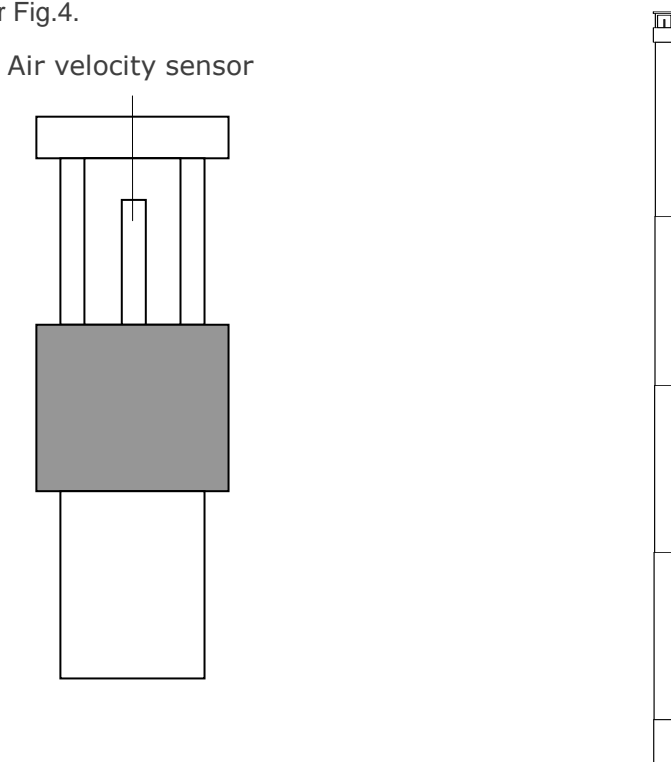
display. Press  to store the new setting in memory. **On** (sleep mode on) or **OFF** (sleep mode off).

Measuring Procedure

1. Connect the “Probe’s Plug” to the “Probe Input Socket”.
2. Power on the meter by push the “Power On/Off Button”.
3. Select the desire air velocity units and temperature units.
4. Zero setting:
 - a. On the “Sensing Head”, slide the sensor cover to the up position to let the air velocity sensor isolated from the environment.
 - b. Push the “Zero Button” to let reading value of air velocity shows zero value.



5. Slide the sensor cover to the down position, let the air velocity sensor to contact the air, refer Fig.2. Extend the telescope probe to the convenient length, refer Fig.4.



6. Direction of the sensor head:

There is mark on the top of the “Sensor Head”, When make the measurement, then this mark should against the measured wind, refer Fig. 4, Fig5. When sensor head face against the measurement air, then the upper display will show the air velocity value. The lower display will show the temperature value.

Air velocity sensor

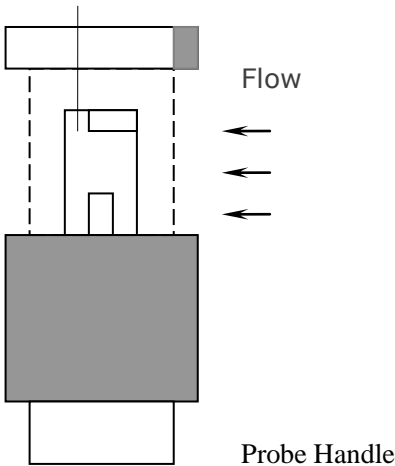


Fig.4

Sensor head (top view)

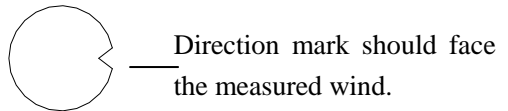


Fig.5


Performing a multi-point mean calculation


1. Press  .


● **Mean** is lit. The number of readings recorded is displayed in the upper line, while the current reading is displayed in the lower line.

2. To change between displaying the temperature, flow velocity and

calculated volumetric flow rate: Press  .

3. If we want to change the units of the current reading, press  .

4. To include readings (in the desired quantity): Press  (several times).


5. To end measurement and calculate the mean value: Press  .

● **Mean** flashes. The calculated spot mean value is displayed.


4 To return to measurement view: Press  .


Performing a mean calculation in time

1. Press  for 2 seconds.


Mean  is lit. The elapsed measuring time (mm:ss) is displayed in the upper line, while the current reading is displayed in the lower line.


2. To change between displaying the temperature, flow velocity and


calculated volumetric flow rate: Press .

3. If we want to change the units of the current reading, press .


4. To interrupt/continue measurement: Press each time.

5. To end measurement and calculate the mean value: Press .

Mean  Mean flashes. The calculated mean value in time is displayed.


7. To return to measurement view: Press .


Holding the Displayed Readings

1. Press  to freeze the readings on the display .The display shows


HOLD.


2. To change between displaying the temperature, flow velocity and

calculated volumetric flow rate: Press .

3. Press  again to turn off the **HOLD** function.

Viewing the MIN, MAX Readings

1. Press  to step through the maximum (MAX), minimum (MIN), or the average (AVG) readings. The elapsed time since entering MAX/ MIN mode, or the time at which the minimum or maximum occurred appears on the display.

2. Press  button for 2 seconds to exit MAX/MIN mode.

Replacing the Batteries

1. Turn off the thermometer if necessary.
2. Loosen the screw and remove the battery door.
3. Replace 9V batteries.
4. Replace the battery door and tighten the screw.