

User Manual



AM200

Thermo-Anemometer with Wind
Speed, Wind Chill and Temperature

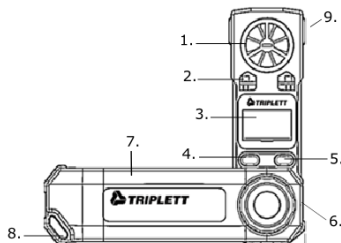


Introduction

Congratulations on your purchase of Triplet AM200 Mini Thermo-Anemometer. This professional meter, with proper care, will provide years of safe reliable service.

Meter Description

1. Vane impeller
2. Precision thermistor
3. LCD display
4. POWER and HOLD key
5. UNITS and MODE key
6. Battery compartment (on rear)
7. Swivel handle and storage case
8. Lanyard holder
9. Impeller set screw (on rear of meter)



Operation

Select the desired units for air velocity and temperature by momentarily pressing the UNITS/MODE key from a powered down condition. The LCD will show temperature units ($^{\circ}\text{C}$ or $^{\circ}\text{F}$) and Air Velocity units. Press the UNITS/MODE key repeatedly until the desired units are displaying. When finished, press the ON/OFF/HOLD key momentarily to restart the meter with the desired units.

Power the meter by pressing the ON/OFF/HOLD key momentarily. The Dual Display will illuminate. The top (larger) display indicates air speed and the lower display indicates temperature.

Position the meter so that the measured airflow enters the meter vane from the *rear* of the meter (opposite side from the front panel logo, part number, etc.).

Activate Data Hold (to freeze the most recent display), by pressing and holding the ON/OFF/HOLD key while taking measurements. To return to normal operation, release the key and restart the meter.

Max operation: After a measurement session, press and hold the UNITS / MODE key until the MAX icon appears on the lower left-hand side of the LCD. Both the Air Velocity and Temperature indication will represent the highest readings measured since the meter was last powered.

Average mode operation: Normally the meter averages readings every 2 seconds. To select 5, 10 or 13 second averaging, first press and hold the UNITS/MODE key until the MAX icon appears. Next, press the key again momentarily and the AVG icon will appear. The 13 second average mode is selected. Now press the key again and the number 5 will appear. Leave it there if an average of 5 seconds is desired. Press the key once more for a 10 second average mode. To return to normal operation press the UNITS/MODE key repeatedly until all lower left-hand icons disappear.

Wind chill indicator: Press and hold the UNITS/MODE key until the MAX icon appears. Press the key repeatedly until the WCI icon appears. The temperature display will now factor in the wind chill. To return to normal operation, press the UNITS/MODE key again and the WCI icon will disappear.

AUTO POWER OFF: After approx. 20 mins, if meter keys are not touched, the meter automatically shuts down to preserve battery life.

Specifications

General Specifications

Display	Dual LCD with multifunction indicators
Measurements	Knots, km/h, MPH, ft/min, m/sec, Beaufort force, windchill, and temperature (C/F)
Wind-speed	Moving 2 second average with 2 second gust detect
Sensor	Sapphire bearing, non-corrosive vane for air velocity and precision thermistor for temperature
Average Mode	Choice of 5, 10, or 13 second average readings
Max Display	Push button highest reading recall
Data hold	Freeze most recent display
Sample time	1 reading per second
Water-resistant	To 3' (1 meter)
Min/Max wind-speed	1.1 to 62.5 MPH
Operating temperature	5 to 122°F (-15 to 50°C)
Operating humidity	< 80% RH
Power supply	Lithium battery type CR-2032 or equivalent
Battery life	400 hours approx.
Weight	3 oz. (95 g)
Dimensions	Instrument: 5.25 x 2.75 x 0.75" (133 x 70 x 19mm) Vane: 1" (24mm) diameter

Electrical Specifications

Measurement	Range	Resolution	Accuracy
MPH (Miles per hour)	2.5 to 44.7 MPH	0.2 MPH	± (3%rdg +0.4MPH)
km/hr (kilometers per hour)	4.0 to 72.0 km/h	0.7 km/h	± (3%rdg +1.4km/h)
Knots (nautical miles per hour)	2.1 to 38.9 knots	0.3 knots	± (3%rdg +0.6knots)
m/sec (meters per second)	1.1 to 20.0 m/s	0.01 m/s	± (3%rdg +0.2m/s)
ft/min (feet per minute)	216 to 3936 ft/min	20ft/min	± (3%rdg +40ft/min)
Beaufort force	1 to 8 BF	1 BF	± 1
Temperature	0 to 122°F	0.1°F	±1.8°F
	-18 to 50°C	0.1°C	±1°C

Maintenance

Battery Replacement

The AM200 has a low battery indicator (battery symbol). Important: Turn the meter off before opening the battery compartment. Using a coin, turn the battery compartment cover CLOCKWISE to remove it. Once opened, observe the position of the battery, placing the new one in the same position. Secure the battery compartment cover and dispose of the lithium battery in accordance with local, state, or national disposal codes.



All EU users are legally bound by the Battery Ordinance to return all used batteries to community collection points or wherever batteries / accumulators are sold.

Disposal in household trash or refuse is prohibited.

Disposal: Follow the valid legal stipulations in respect of the disposal of the device at the end of its lifecycle

Other Battery Safety Reminders

Never dispose of batteries in a fire. Batteries may explode or leak.

Never mix battery types. Always install new batteries of the same type.

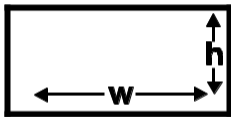
Impeller Replacement

Remove the set screw next to the impeller assembly (on the rear of the meter). Twist the impeller assembly counter-clockwise to the OPEN position and remove it.

Install impeller by inserting & twisting the new impeller assembly clockwise Tighten the set screw.

CFM Measurements

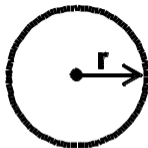
Measure the area of the duct using the diagrams below for rectangular and circular ducts (If the duct measurements are made in inches, divide the inches by 144 to get the area in square feet). Plug the area value (in square feet) in the cubic equations below. Note that the air velocity must be plugged into the cubic equations also.



$$A = w * h$$

$$\text{CFM (ft}^3/\text{min)} = \text{Air Velocity (ft/min)} \times \text{Area (ft}^2\text{)}$$

$$\text{CMM (m}^3/\text{min)} = \text{Air Velocity (m/sec)} \times \text{Area (m}^2\text{)} \times 60$$



$$A = \pi r^2$$

Warranty

Triplett / Jewell Instruments extends the following warranty to the original purchaser of these goods for use. Triplett warrants to the original purchaser for use that the products sold by it will be free from defects in workmanship and material for a period of (1) one year from the date of purchase. This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way or purchased from unauthorized distributors so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence, accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries are not covered by this warranty

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