

# Digital Anemometers

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Measuring & Inspection



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A digital anemometer measures air speed and often air flow, used to check ventilation, extraction systems, fan performance and weather conditions. It provides the numbers that prove a dust extractor or air handling unit is actually working.

## Key Features

- Vane or hot-wire sensor types
- Ranges from 0.4 to 30 m/s typical
- Air flow calculation in litres or m3 per minute
- Hold, MAX/AVG and unit switching
- Backlit displays for dark plant rooms

## Typical Uses in the Workshop

- Verify dust extractor and fume hood airflow
- Check ventilation outlets and grilles
- Test fan performance and filter blockage
- Measure wind speed for outdoor projects

## Safe Operation

1. Select the measurement unit and mode
2. Place the vane or probe in the airstream
3. Hold steady and read the average over several seconds
4. Measure at the same position each time for fair comparison
5. Record values before and after filter changes

## SAFETY NOTES

- Keep the vane away from fingers and spinning parts
- Do not put the probe near live electrics
- Use the instrument away from water
- Store the probe protected
- Do not measure gas flows without the right instrument

#### Maintenance & Consumables

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- Clean the vane and body of dust
- Check the sensor spins freely
- Replace batteries as needed
- Protect the probe tip when stored
- Calibrate against a known fan yearly

#### Specification & Buying Notes

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A vane anemometer with flow calculation suits workshop extraction checks. Buy one with a case, tripod mount and backlight. Simpler models measure speed only - check the spec before purchase.