

elcometer® 410 Anemometer



At a glance:

- **Small, robust, lightweight instrument with easy to read display**
- **View current, maximum or average wind speed**
- **Wide choice of measurement units**

The Elcometer 410 Anemometer is a portable, pocket size instrument for taking accurate readings of wind speed.

The lightweight impeller with high precision jewel bearings provides very accurate airflow measurements even at low speeds. The impeller can easily be replaced without the need to return the unit to Elcometer.

The wind speed can be displayed in various measurement units; indicating current speed, maximum speed or average speed.

- Rugged and durable:
 - Made from high impact injection moulded plastic and corrosion resistant materials.
- Waterproof:
- Waterproof equivalent to IP67 with fully sealed electronics. Will also float in water if dropped.
- Clear LCD Display:
 - Easy to read, large 9mm digits.
- Choice of measurement units:
 - Beaufort Force
 - Knots
 - Kilometres per hour
 - Metres per second
 - Miles per hour
 - Feet per minute

Applications

There are many industries and applications where measurement of wind speed is important including:

Construction:	site safety, working conditions, working at height in cranes or access vehicles.
Heating & Ventilation:	air flow through fans, checking the conditions of filters.
Agriculture:	checking conditions prior to crop spraying or burning.
Education:	air flow experiments, environmental studies, outdoor sports.



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Technical Specifications

Functions	Current wind speed (3 second average); Average speed since power on (AVG); Maximum 3 second gust since power on (MAX); Data Hold
Measurement Units	Knots (kt), metres per second (m/s), kilometres per hour (km/h), miles per hour (mph), feet per minute (ft/min) and Beaufort Force (B)
Operating Range	0.4m/s to 60m/s
Specification Range	0.4m/s to 40m/s
On-axis Accuracy*	±3% of reading or least significant digit, whichever is the greater
Off-axis Response	-1% at 5°, -2% at 10°, -3% at 15°
Calibration Drift	<1% after 100 hours operation at 7m/s
Resolution	0.1 kt, m/s, km/h, mph. 1 ft/min below 1999 ft/min, 0.2 10 ft/min above 2000 ft/min. 1 Beaufort (0 to 12)
Operating Temperature	-10°C to +55°C
Storage Temperature	-30°C to +60°C
Power Supply	1 x CR2032 Lithium Coin Cell
Battery Life	Approximately 300 hours
Auto Switch Off	45 minutes after last key press
Dimensions	Instrument Only: 122 x 42 x 20mm Instrument and Protective Cover: 122 x 46 x 26mm
Weight	Instrument Only: 65g Instrument and Protective Cover: 102g

* Some loss of accuracy from bearing wear may occur with sustained operation at or near maximum speed

Packing List

- Elcometer 410 Anemometer,
- protective cover,
- lanyard,
- 1 x CR2032 battery
- operating instructions.

Part Numbers

Model	Description	Part Number
Elcometer 410	Elcometer 410 Anemometer	G410-1
Spares / Accessories	Portable Mini Tripod (including Tripod Clamp)	T41021404
	Tripod Clamp (Securely holds the Elcometer 410 and will fit any standard tripod)	T41021405
	Replacement Impeller	T41021406

