



034B-ETM

Wind Set with Mounts for ET107 Station



Reliable, Accurate Wind Measurements

Configured for use with Campbell
ET stations

Overview

The 034B-ETM, manufactured by Met One, combines a three-cup anemometer and vane into a single integrated package to measure wind speed and direction. This wind set is constructed out of lightweight aluminum and is designed for continuous, long-term operation for your applications.

For this version of the 034B Wind Set, the cable terminates in a connector and is the ideal length for attachment to the ET107 ETo Weather Station. The 034B-ETM includes a mount for attachment to the ET107's crossarm.

Detailed Description

The 034B-ETM monitors wind speed using a three-cup anemometer that contains a sealed magnetic reed switch. Rotation of the cup wheel produces a pulse that is directly proportional to wind speed. The frequency of the pulse is measured by the datalogger pulse count channel, then converted to engineering units (mph, m/s, knots).

Wind direction is sensed with a potentiometer. With the precision excitation voltage from the datalogger applied to the potentiometer element, the output signal is an analog voltage that is directly proportional to the azimuth of the wind direction.

Specifications

Operating Temperature	-30° to +70°C
Cable Length	170.18 cm (67 in.)
Weight	907 g (2 lb)

Wind Speed (Anemometer)

Range	0 to 75 m/s (0 to 167 mph)
Accuracy < 10.14 m/s (22.7 mph)	0.1 m/s (0.25 mph)
Accuracy > 10.14 m/s (22.7 mph)	±1.1% of true

Resolution	(0.7998 m s ⁻¹) / (scan rate in seconds) or (1.789 mph) / (scan rate in seconds)
Starting Threshold	0.4 m/s (0.9 mph)
Sensor Output	Pulsed contact closure
Anemometer Radius	10.7 cm (4.2 in.)
Anemometer Height	24.4 cm (9.6 in.)



Wind Direction (Vane)

Mechanical Range	360°
Electrical Range	356° (4° open)
Accuracy	±4°

Damping Ratio	0.25
Resolution	< 5°
Potentiometer Resistance	0 to 10 kΩ (open at crossover)
Vane Length	33.5 cm (13.2 in.)

For comprehensive details, visit: www.campbellsci.com.au/034b-etm 



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