This anemometer is an improved version of the popular three-cup design used in wind assessments for decades, manufactured to precise industry standards. The rotor is made of tough polycarbonate for exceptional durability and reliability. The sensor base is also made of rugged polycarbonate, making it more resistant to damage during installation.

Manufactured in the USA with exceptional quality control—all units are tested mechanically and electronically before shipping. The sensor is made entirely of Lexan, a strong plastic that makes the anemometer less likely to break during installation. Its distinctive vinyl boot shields wiring for long-term performance. Additionally, it is manufactured to meet new standards and is RoHS-compliant—no toxic metals.

Specifications:

- Conical cups measure 51 mm (2 inches) in diameter
- Rotor diameter is 190 mm (7.5 inches)
- Magnetically actuated Reed Switch output
- Four-pole Indox 1 magnet rotates with the cup assembly
- Fully hardened beryllium-copper shaft running in self-lubricating modified fluoropolymer bearings
- Protective boot to make the system dirt and water resistant
- Rated bearing PV (pressure-velocity) factor is 20,000 – At 15 mph PV is approx. 500. – A 100 mph PV is approx. 2,000.
- Rotor assembly moment of inertia = 68 x 10⁻⁶ S-ft² (or 92.2 x 10⁻⁶ kg-m²)
- Distance constant = 10 feet (3.0 meters)
- Transfer Function: 120 Hz (switch closures per second) @ 102 MPH
- Accuracy: within 0.1 m/s (0.2 mph) for the range 5 m/s to 25 m/s (11 mph to 55 mph)