

ANEMOMETER CUP COUNTER



The Anemometer Cup Counter is used for measuring the wind speed. The instrument has a Cup wheel comprising of three conical cups made from Aluminium / Copper sheet with bedded edges and free to rotate in a horizontal plane. The Cup wheel spindle is connected by worm gearing to a revolution counter mounted inside waterproof housing made from Aluminium / Gunmetal casting.

The gear ratio between the cup and counter is so chosen that the run of the wind is shown directly in Kilometers and tenths. The Counter mechanism has five figures and reads upto 9999.9 km. before repeating itself.

Material :

Cup	: Aluminium / Copper Sheet
Cup Arm	: Brass
Body & LID	: Cast Aluminium / Gunmetal
Center Spindle	: Stainless steel
Worm	: Manganese Bronze alloy
Worm Wheel	: Hard Brass
Other parts	: Made from Non-rusting material.

DESCRIPTION :

CUP ROTOR ASSEMBLY :- Each of the three rotor cups have an internal Dia. of exactly 127.0 mm and semi-conical in shape. The spindle is supported on two bearings. The assembly is made as per the instruction laid in IS:5912.

WORM & WORM WHEEL :- The Worm & Worm wheel are so designed that worms threads engage without friction to the Worm wheel. The gearing ratio shall be 32 revolutions of Cup produce one revolution of the Worm wheel.

BODY & LID :- The body and the lid are made from Aluminium / Gunmetal casting and Glass window only viewing the five figure wheels of the counter.

COUNTER :- It is a non-reset, direct drive revolution mechanical counter adding one count for each one tenth revolution. The figures of the Counter shall be 7 mm high of white pigment colour on black background.

TESTS :- The instruments is tested for balance of Cup assembly and frictionless movement is tested for "Spin Accuracy" as per IS: 9512-1970 Section 7, 7.1 and 7.2. The accuracy of the instrument is as per Section 7.0.