

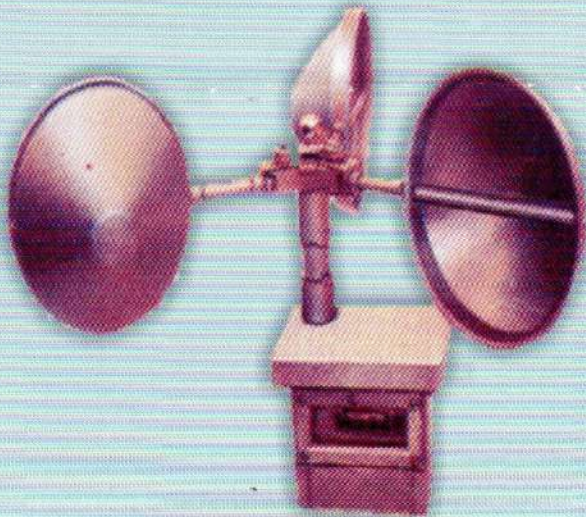
Since...
1992

CUP COUNTER ANEMOMETER

(AS Per IS : 5912 - 1997)

The Cup Counter Anemometer is used for measuring the wind speed. The instrument has a cup wheel comprising of three conical cups 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 a water proof housing.

The gear ratio between the cup and counter spindles 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 : Copper sheet/ Aluminium 0.71 mm thick
CUP ARM & SOCKET : Aluminium alloy
BODY & LID : Cast Aluminium/ Brass
CENTRE SPINDLE : Stainless Steel Rod
WORM : Manganese Bronze Alloy
WORM WHEEL : Hard Brass
OTHER PARTS: Made from Non Rusting Material

CUP ROTAR ASSEMBLY :- Each of the three rotor cups shall have an internal Dia. of exactly 127.0 mm and be semi conical in shape. The spindle is supported on two bearings, ball bearing at top & thrust bearing at bottom. The assembly is made as per the instruction laid in IS:5912

WORM & WORM WHEEL- The worm wheel shall engage true with the threads on the worm without friction. The worm wheel shall be secured to the shaft of the counter by means of a steel pin. The gearing ratio shall be such that 32 revolutions of cup rotor produce one revolution of the worm wheel.

BODY & LID :- The body and the lid are made from Aluminium casting and glass window only viewing the five figure wheels of counter. Each anemometer will be supplied with 18" long M.S. bar for fixing in concrete.

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

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