

# ANEMOMETER

Monitoring Of wind has paramount importance in many industrial applications.

## UTILITY AREA

- Meteorological research
- Wind turbine and wind farm
- Disaster control
- Aviation meteorology
- Crane anemometer
- Bridge anemometer



IAS01 is a 3-cup mechanism, utilizing two bearings in combination with injection molded thermoplastic and stainless steel parts which contributes to reliable operation in adverse environments.

Wind direction is measured by a balanced vane coupled to a 20 K ohm conductive plastic potentiometer. It has a constant excitation voltage of 3.3 volt. Change in resistance of potentiometer is proportional to change in the direction of wind.

Wind speed sensor is a passive analog device. Wind cup have a magnet fitted inside the hub, as the wind causes the cups to rotate the magnet rotates over reed switch. Speed pulses are created by a sealed mechanical reed switch during each pass of magnet over it.

## SPECIFICATION

### Wind Direction

Range:.....0-360 degree  
Resolution:.....1 degree  
Accuracy:..... ± 7 Degree

### Wind Speed

Range:.....3 -250 km/h  
Resolution:.....1 Km/h  
Accuracy:..... ± 5%