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NOTICIAS

## WIND VANE PROBE ADP-360

### ELECTRONIC WIND SPEED VANE ZERO FRICTION

This electronic wind vane represents the latest technology in wind sensing: a balanced wind direction vane with a near-zero friction bearing and a high accuracy magnetic angle sensor to provide precision wind direction.

SENSOR TYPE	Balanced wind vane connected to an active, non-contact, zero friction Hall Effect sensor Sealed magnetic Hall Effect sensor. Magnet hovers over the sensor to provide ~0-5VDC output
SENSOR RANGE	Full 360 degrees , zero deadband
ACCURACY	+/-0.3 to 0.5% of full signal range
RESOLUTION	0.025 degrees
ELECTRICAL	3 wire flying leads. Supply voltage 4.5 to 5.5 Vdc. Current 15 mA typical Output 5% to 95% of input voltage (0.25 to 4.75VDC) Length of wire: 10 m.
MOUNTING	The ADP-360 is provided with an offset aluminum bracket with 2 mounting holes.
DIMENSIONS	100 mm (4") high x 200 mm (8") turning diameter



The active element is a sealed Hall effect sensor. Wind direction is provided by a magnet attached to the vane, and which hovers over the sensor.

It represents a number of advantages over potentiometer vanes, including:

- Zero dead band. Many potentiometer wind vanes have a dead spot of several degrees. This device has no dead band at all.
- Near-zero friction. Since the magnet is not in contact with the Hall sensor, there is no friction from the sensor.
- Virtually infinite life. Unlike potentiometers that wear out, the magnetic Hall sensor is non-contacting and should theoretically last forever.

The **ADP-360** requires 5 volts DC for power. It has three wires: ground, power, and signal.

CAUTION: some power supplies (even regulated) can generate spikes that will destroy the Hall sensor. Make sure the power supply does not produce spikes, especially when plugging/unplugging them.

The **ADP-360** with the DMM-4000 or DS-4200 devices includes a new locking feature which to lock the sensor so you can twist the vane and set "North" (or zero output) to where-ever you wish.

That means that the offset bracket can be pointed in any direction you want, unlike other manufacturers that force you to point the bracket to North so it will read correctly.

With the **ADP-360**, just mount the vane, lock the sensor when the device says North, twist the vane until it points North, then push the touch for fix the direction and lets the sensor free to rotate.

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