

KWR-524 Direct Recording Wind Vane/Anemometer

The KWR-524 can be used to reliably record wind speed and direction data over an extended time period even where there is no commercial-level power source. Wind rotates the blades of the propeller-type sensor to create electricity. A cable directly connects the sensor to a recorder, which records the measured data. Meanwhile, wind direction as measured by the wind vane is relayed to a cam mechanism in the recorder via a long rod directly connected to the vane and positioned inside a metal mounting pole. The cam mechanism operates a pen to record the measured directional data on a 0 to 540° chart readout without the need for electric power.

APPLICATIONS

Mountain-top and other weather observatories, etc.

FEATURES

Allows for long-term weather monitoring even where there is no source of electrical power. Has excellent durability.

SPECIFICATIONS

Components

Sensor	Propeller: coreless 4-pole AC generator Vane: directly linked vane
Recorder	Speed: rectifying voltmeter Direction: mechanical cam

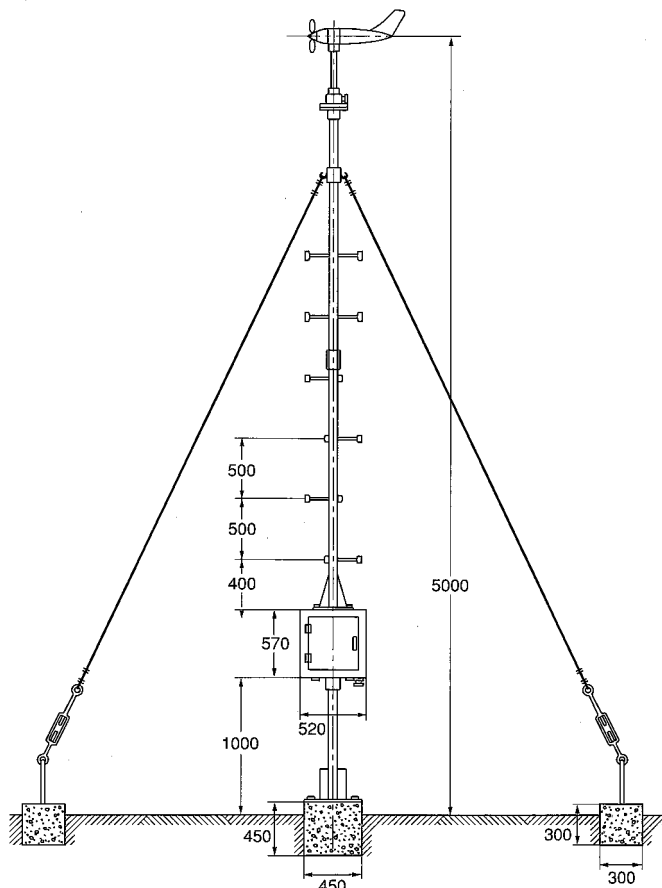
Measurement range Instantaneous speed: 2-60 m/s
Direction: 16 cardinal points (0-540°)

Accuracy Speed: ± 0.5 m/s at winds ≤ 10 m/s
 $\pm 5\%$ at winds > 10 m/s
Direction: $\pm 5^\circ$

Power Not required for either speed or direction
(One D-cell battery to power timer)

Standard components

Sensor, recorder, recorder case, metal pole,
one set accessories



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