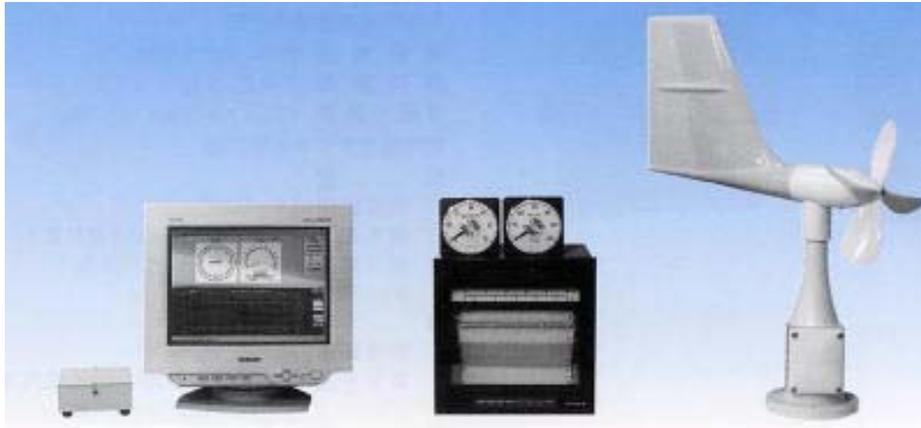


KWB Series Propeller-type Wind Vane/Anemometer System (Breeze Vane)

The KWB series is a high-performance system that allows monitoring of wind speed and direction for winds ranging from the slightest breeze to powerful winds. The sensor outputs an RS-422 or RS-232C digital signal and a 0-1 V DC or 0-5 V DC analog signal, making it possible to connect the KWB series to a variety of other equipment depending on the desired configuration.



COMPONENTS

KWB-88

- 1 Propeller-type speed/dir. sensor
- 1 Transducer
- 1 Personal computer
- 1 Two-pen recorder
- 1 Indicator

KWB-89

- 1 Propeller-type speed/dir. sensor
- 1 Transducer
- 1 Two-pen recorder
- 1 Indicator

KWB-90

- 1 Propeller-type speed/dir. sensor
- 1 Transducer
- 1 Two-pen recorder

Transducer

Supplies power to sensor and converts RS-422 signal to RS-232C signal

Input signal

RS-422 signal

Output signal

RS-232C signal (5 V or 1 V analog signal output as is)

Power output

12 V DC

Power

100V AC 10VA

Personal computer

1 CD-ROM of wind speed/direction monitoring application software

Software is to be loaded onto personal computer available at typical retail dealer. Software supports on-screen display, chart-making, data storage.

Two-pen recorder

Recording method

Analog, using two cartridge pens

Recorded range

Direction: 0-540°
Speed: 0-60 m/s

Cont. recording

1 month

Paper feed speed

25 mm/h

Chart paper

20 m folding paper

Power

100 V to 240 V AC, 50/60 Hz

Indicator

0-5 V DC input analog indicator
110 × 110 mm readout

SPECIFICATIONS

Propeller-type wind speed/direction sensor

Model	Brushless encoder
Sensor	Propeller: optical pulse, brushless Vane: rotary encoder (8-bit)
Outputs	For both speed and direction: 0-5 V DC (or 0-1 V DC) RS-422 (or RS-232C)
Threshold	<0.4 m/s
Weatherability	Winds of 90 m/s or greater
Accuracy	Speed: ±0.3 m/s at winds ≤5 m/s ±5% when winds exceed 5 m/s Direction: ±5°
Power	12 V DC (10 V to 13.5 V)
Usage conditions	-10°C to 50°C
Materials	Propeller: polycarbonate resin Body: polycarbonate resin Vane: FRP (polyester with carbon fibers)
Paint	Standard: Munsell 8YR7.3/1.3
Weight	Approx. 3.0 kg



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