

KPC-2000 Wind Speed/Direction Monitoring System

The KPC-2000 system uses an RS-442 digital signal from a wind speed and direction sensor output to a personal computer to display wind speed and direction information and generate daily and monthly charts. The KPC-2000 system also allows for the setting of two separate wind speed alerts, which notify a user with both visual and audio cues when wind speed exceeds the alert settings.



SPECIFICATIONS

Brushless encoder

Propeller: optical pulse-type (60 pulses/rev.)
Vane: rotary encoder (8-bit)

RS-442

Low-speed sensor <0.4 m/s

High-speed sensor <2 m/s

Winds ≥ 90 m/s

High-speed: ± 0.5 m/s @ winds ≤ 10 m/s
 $\pm 5\%$ @ winds > 10 m/s

Low-speed: ± 0.3 m/s @ winds ≤ 5 m/s
 $\pm 5\%$ @ winds > 5 m/s

$\pm 5^\circ$

12 V DC (10 V-13.5 V), ≤ 250 mA

-10 to 50°C

12-pole waterproof, cord diam. 8.5-10.5

Polycarbonate resin

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FRP (glass fiber-reinforced polyester resin)

Munsell color 8YR 7.3/1.3

In-house or Japan Meteorological Agency

FEATURES

1. On-screen display: Instantaneous wind speed/direction, 2-minute averages, 10-minute averages, day-long changes, two user-defined wind speed alerts (speed available in kt or m/s, direction as the 16 cardinal points or in degrees)
2. Chart generation: Daily reports (incl. wind rose), monthly reports (incl. wind rose), day-long variation diagrams
3. Data storage: CSV-format files (for use with Excel) are generated monthly and contain date, time, average wind speed/direction, and maximum wind speed at 10-minute intervals.

COMPONENTS

- 1 Wind speed/direction sensor
- 1 Wind speed/direction transducer
- 1 CD-ROM for wind speed/direction monitor application software

Options:

- 1 personal computer (Windows95, 98, or NT)
- 1 printer

Transducer

The transducer provides power to the sensor and converts the RS-422 signal to an RS-232C signal.

Input signal RS-422

Output signal RS-232C

Power output 12 V DC (supplied to the sensor)

Power source 100 V AC 10VA



KOMATSU FACTORY CO.,LTD.

WEATHER INSTRUMENTS FABRICATION

1-12-13 Higashiyama Meguro-ku Tokyo 153-0043 Japan

TEL : 03-3719-7131

FAX : 03-3719-7134

e-mail : info@komatsuins.co.jp