KPC-300 Meteorological Data Logger

The KPC-300 is designed to collect data for direct input to a personal computer. At 10-minute intervals, the KPC-300 obtains data for eight different inputs, including wind direction, wind speed, temperature, humidity, precipitation, solar radiation, geothermal temperature, and cumulative snowfall. Data is then stored on an internal memory. Stored data is converted into an RS232C signal and directly output to a personal computer. Installing the specially designed software on the computer allows for automatic data collection every 10 minutes. The KPC-300 includes a monitoring function that provides display of continuous, real-time monitoring of wind direction and speed, as well as generation of graphs and daily or monthly reports. The KPC-300 also maintains text data at 10-minute intervals. Data collection is also possible via modem or mobile telephone.
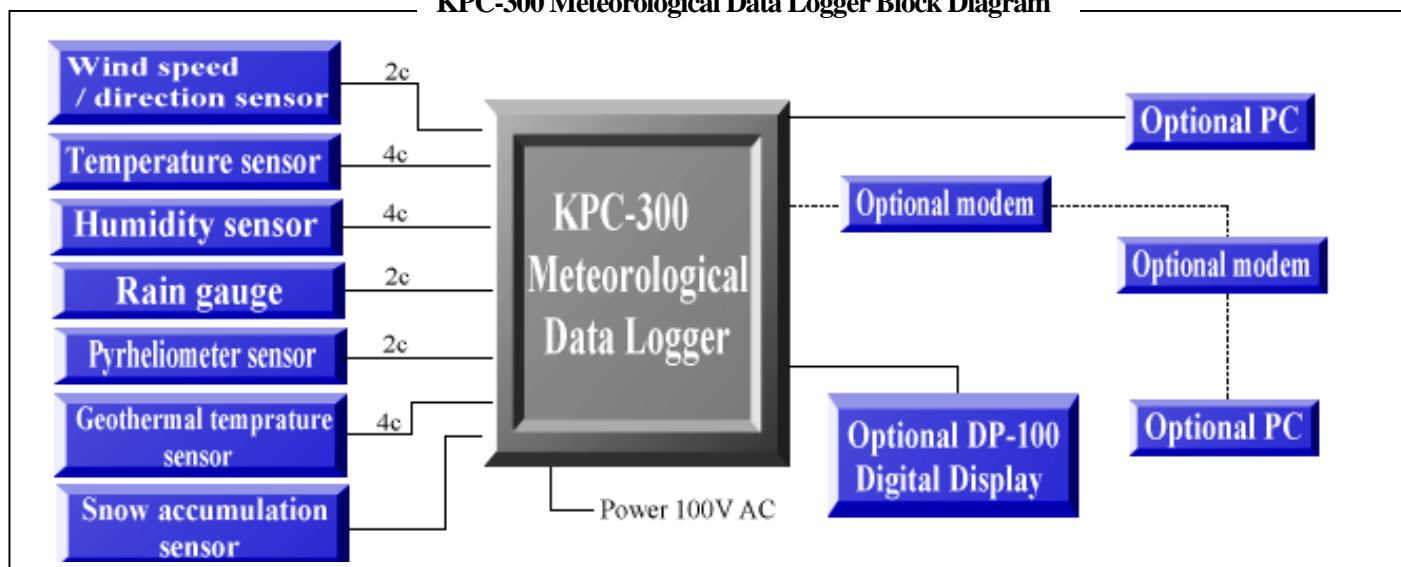

FEATURES

1. All-in-one device for direct connection to a personal computer
2. Includes collection/processing software for Windows 98
3. Includes a real-time monitoring function
4. Data stored as text every 10 minutes
5. Can process graphs, generate daily/monthly reports
6. Includes an RS-232C signal input channel
7. Automatically collects missing data not collected by computer
8. Allows for data collection via modem, mobile telephone

SPECIFICATIONS

Inputs	Up to eight: wind speed/direction, temp., humidity, precipitation, geothermal temp., RS232C, cumulative snowfall, ultrasound wind speed., 0-1 V DC inputs (barometric pressure, solar radiation, etc.)
Sampling times	≥0.25 s (adjustable)
Records	Every 10 min
Output	RS-232C: personal computer or digital indicator. Analog 0-1 V (optional)
Processing options	Maximum, mean, minimum, startup values, standard deviation available as option for wind speed/direction
LED	Two 20-character lines, menu screen setup, data monitor, clock display
Cont. recording	Approx. 20 days
Power source	100 V AC ±10%, 50/60 Hz. Equipped to deal with power outages
Usage conditions	Temperature: -20 to 40°C. Humidity: 20 to 90%RH (non-condensing)
Software	For use with Windows 98; includes automatic data collection at 10-min intervals, real-time monitoring, graph processing (daily/monthly reports, saving of text data at 10-min intervals)
Size/weight	Approx. $240 \times 200 \times 80$ mm, 3.5 kg

KPC-300 Meteorological Data Logger Block Diagram