DATA STRING DEFINITION

All data fields are four characters long and represent a hexadecimal number value. In Excel, convert the hex number to its decimal equivalent by using the HEX2DEC(n) function. Each received packet is followed by a series of 3 CR/LF characters.

Packet Layout

!! WWWW CCCC TTTT 0000 ---- tttt -------- DDDD MMMM 0000 AAAAA

Field Definitions

WWWW:  Momentary Wind Speed in 0.1 kilometers per hour, recorded at the moment the packet was sent.

CCCC:  Compass Direction (0-255) indicating direction of the momentary wind reading, recorded at the moment the packet was sent.

TTTT:  Temperature of the remote thermometer probe, in 0.1 degrees Fahrenheit.

0000:  Not used; available for rain gauge to report cumulative long term rainfall

----:  Not used; available for barometer

tttt:  Temperature of weather station control box, in 0.1 degrees Fahrenheit

----:  Not used, available for remote humidity sensor

----:  Not used; available for internal humidity sensor

DDDD:  Day of the year. To convert to 2003 Julian date in Excel, take the decimal equivalent and add 37622, then format the resulting number as a “Date” field.

MMMM:  Minute of the day. To obtain standard time of day, take the decimal equivalent and divide by 1440, then format the resulting fractional number as a “Time” field

0000:  Not used; available for cumulative daily rainfall total

AAAA:  Wind Speed Average over the last 60 seconds prior to the moment the packet was sent, in 0.1 kilometers per hour