

## 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

**!!WWWCCCCTTTT0000- - - - tttt- - - - - DDDDMMM0000AAAA**

### Field Definitions

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

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

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

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

**- - - - :** *Not used; available for barometer*

**ttt:** 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*

**DDD:** 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.

**MMM:** 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

**000:** *Not used; available for cumulative daily rainfall total*

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