Model 06201 Wind Tracker
Serial RS-485 Output String Format
Feb 95

The serial output string is designed to supply data to remote 06201 Wind Trackers configured as slave indicators. The data string is 24 bytes long and is transmitted 16 times per second at 9600 baud. The first character of each string transmission is '$' (ASCII 36). All data are sent in binary as byte or integer values. Integer values (2 bytes) are in Motorola format: most significant byte first.

Description	Type	Comments
Header	byte	'$' (ASCII 36) denotes beginning of string
Max/Dir Display	byte	Code for state of right numeric display 00 max wind speed 01 wind direction angle in degrees
Sensor/WS Units	byte	Code for sensor type and wind speed units. Code = sensor value * 4 + units value. Sensor values: 00 Line Driver), 01 Wind Sentry, 02 Wind Monitor Jr, 03 Wind Monitor, 04 Wind Monitor-AQ Unit values: 00 knot, 01 mph, 02 km/hr, 03 m/s
Annunciator	byte	Binary code for state of 8 annunciator lights on front panel (values are in hexidecimal): 40 KNOTS, 20 MPH, 10 KM/H, 08 M/S, 04 WD AL, 02 WS AL, 01 AVG, 80 (no label)
Sound	byte	Code for state of audio beeper: 00 off 01 on
Direction Alarm	byte	Code for state of wind direction alarm: 00 off 01 on
Speed Alarm	byte	Code for state of wind speed alarm: 00 off 01 on
Speed Display	integer	Binary value of currently displayed wind speed. (When m/s units are in use, binary value = wind speed x 10. Example: 123 represents 12.3 m/s)
Right Display	integer	Binary value of max wind speed (default) or numeric wind direction angle currently in right display. See Max/Dir Display code above. (When max wind speed is selected and m/s units are in use, binary value = max speed x 10. Example: 123 represents 12.3 m/s)
Raw Wind Speed	integer	Binary value of raw wind speed count or analog measurement. Period for count is 0.9994 seconds for Wind Monitors (Input type 04, 05, 05A), 1.9999 seconds for Wind Sentry (Input type 03). For Line Driver input, raw wind speed is an analog value: 0-721 represents 4-20 mA.
Angle	integer	Binary value for current wind direction.
Dir Display	9 bytes	Nine binary codes for state of direction display LED's. (2 colors * 36 positions) / 8bits = 9 bytes