

Appendix A

Description of fields found in the Text table and in the Time Series options.

COLUMN HEADERS

Ht (m) – Height

Spd (m/s) – Vector speed

Dir (deg) – Vector direction

W (m/s) – Vertical Velocity (a.k.a. radial velocity of the W component)

SDW – Standard Deviation of the W component

IW (millivolts) – Intensity of the return signal of the W component

GSPD (m/s) – Gust Speed in m/s

GDIR (deg) – Gust Direction in m/s

U (m/s) – Radial velocity of the U component

SDU – Standard Deviation of the U component

NU (count) – Number of quality return signals for the U component

IU (millivolts) – Intensity of the return signal of the U component

SNRU – Signal to Noise Ratio of the U component

V (m/s) – Radial velocity of the V component

SDV – Standard Deviation of the V component

NV (count) – Number of quality return signals for the V component

IV (millivolts) – Intensity of the return signal of the V component

SNRV – Signal to Noise Ratio of the V component

NW (count) – Number of quality return signals for the W component

SNRW – Signal to Noise Ratio of the W component

FOOTERS

TC (deg C) – Temperature (requires NM### or WXT##)

RH (%) – Relative Humidity (requires NM### or WXT##)

Pmb (millibars) – Barometric Pressure (requires NM### or WXT##)

Rmm (mm) – Rainfall Accumulation (requires WXT##)

Rsec (s) – Rainfall Duration (requires WXT##)

Hhits/cm² (hits/cm²) – Hail (requires WXT##)

Hsec (s) – Hail Duration (requires WXT##)

DewPT (deg C) – Dew Point (requires NM###)

PTDir (deg) – Magnetic Direction (requires NM###)

HEATON – Percent of time the heater ran during the averaging interval

GENON – Percent of time the generator ran during the averaging interval

FUEL – Percent of fuel remaining in the fuel tank

RAIN – Percent of time the rain was present during the averaging interval

SNOW – Percent of time the snow was present during the averaging interval

Appendix B



Descriptions of the Information found in the 4 line WindTable Header

The first header line is defined as:

Position	Item	Description	Units
1	Site Name	Name of the site as specified by user	
2	Start Date/Time		
3	End Date/Time		
4	Software Version		
5	Frequency & Reflector Type	Transmit Frequency concatenated with letter(s) representing reflector type	HZ (R,TP,S)
6	Bw	Filter Bandwidth	Hz
7	Damp	% Amplitude Level	%
8	Pulw	Transmit pulse width	millisecond
9	Rise	Pulse shading	millisecond
10	Rofs	In phase offset	millivolt
11	Jofs	Quadrature offset	millivolt
12	Temp	Temperature (found on models with temp sensors or 3m mets)	deg C

The second header line is defined as:

Position	Item	Description	Units
1	Sec	Wind table time reporting interval	Seconds
2	Avdst	Wind table altitude reporting interval	Meters
3	Amp	Fixed amplitude threshold	
4	Snr	Signal to Noise threshold	
5	Back	% of background noise set as threshold	
6	Noms	Not used	
7	Nwt	Not used	
8	Gd	Percent good threshold	%
9	Nfft	Number of FFT points	
10	Srate	Digital sampling rate	Hz
11	Clut	Ground clutter rejection flag	
12	Nbini	Signal search window	# points
13	Ngav	Number of pulses for gust detection	
14	Mincr	C Beam spectra search limit (lower)	Radial m/s
15	Maxcr	C Beam spectra search limit (upper)	Radial m/s
16	Minbr	B Beam spectra search limit (lower)	Radial m/s
17	Maxbr	B Beam spectra search limit (upper)	Radial m/s
18	Minar	A Beam spectra search limit (lower)	Radial m/s
19	Maxar	A Beam spectra search limit (upper)	Radial m/s
20	Wdog	Watchdog timer enable flag	
21	Mxdel	Mixing height amplitude detection threshold	Millivolt
22	Ptdir	Sodar reference from rotation angle	Degrees
23	Wmax	Vertical velocity detection threshold	m/s
24	Phase	Interelement spacing	Cm
25	Speci	S file output interval increment	
26	Spec1	S file number of levels output	
27	Specm	S file flag to detail number of axes recorded	
28	Specn	S file number of pulse averages	
29	Specs	S file index of first level recorded	
30	Cdia	DFS data axis	
31	Cdid	DFS number of SRATE samples per level	
32	Cdin	DFS number of pulses per record	

The third header line is defined as:

Position	Item	Description	Units
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1	Axes	Number of active beams	
2	Levels	Number of sampling altitudes	
3	ZenithV	Zenith angle of V beam	Deg
4	ZenithU	Zenith angle of U beam	Deg
5	Rotation	Sodar antenna rotation angle	Deg
6	Separation	Deviation of sodar reference from orthogonal orientation	Deg
7	mixHt	Detected mixing height	Meters
8	rmnU	Noise sample for U beam (X)	millivolt
9	rmnV	Noise sample for V beam (Y)	millivolt
10	rmnW	Noise sample for W beam (Z)	millivolt
Fields below are only provided on systems with applicable options			
11	Antenna status	Status of speakers in antenna (with speaker fault detection, not real-time)	
12	AC status	Status of backup UPS (optional and used for obsolete configurations)	
13	Anemometer Temperature	Temperature from a 3m met sensor (only available on systems with 3m met sensor)	Deg C
14	Battery Voltage	ASP battery voltage (DC systems only)	Volts

The fourth header line is defined as:

Position	Item	Description	Units
Fields below are only provided on systems with applicable options			
1	Antenna status	Status of speakers in antenna (with speaker fault detection, not real-time)	
2	AC status	Status of backup UPS (optional and used for obsolete configurations)	
3	Battery Voltage	ASP battery voltage (DC systems only)	Volts
4	Anemometer Temperature	Temperature from a 3m met sensor (only available on systems with 3m met sensor)	Deg C
5	Generator Status	Percent of generator runtime during the last averaging interval	%
6	Fuel Level	Percent of Fuel remaining as of the last averaging interval	%
7	Rain Status	Percent of time rain was detected during last averaging interval	%
8	Snow Status	Percent of time snow was detected during last averaging interval	%
9	Heater Status	Percent of time the heater was on during last averaging interval	%