



DATALOGGERS

Setting up DataHog2 Logger to read Windspeed in units other than Metres/Second

1. Calculation:
1 metres / second = 2.237 miles per hour
1 metres / second = 1.942 knots
1 metres / second = 3.6 km per hour
Check the Hardware Configuration Certificate at the front of the DataHog manual. Look at the row describing settings for the wind speed channel. The default setting for a Vector anemometer Full Scale Value (FSV) will be around 790, if your logger is reading in metres/second, with 30 second sample time. (If you have any other value, please see Technical Notes 1.0 at the back of the manual).
To convert wind speed readings to another unit of measurement the Full Scale Value (FSV) for the wind speed channel should be calculated as follows:
FSV in m/s x conversion factor (as above) = new FSV
e.g. to convert an existing FSV of 790 in m/s to m.p.h.
New FSV in m.p.h = 790 x 2.237 (use the exact figure on your hardware configuration certificate for this calculation).
2. Enter this new value as follows:
 - a) start the communications software by double clicking on the icon as usual
 - b) at the 'ANY KEY TO WAKE UP...' message, wake up the to reveal the MAIN MENU for the logger. (In SkyeLynx Deluxe, use the LOGGER menu and choose Wake up Logger. In SkyeLynx Standard , use the FILE menu and choose Wake up Logger.)
 - c) press '9' to choose 'Option 9 - Set Ax+B calibration factors'
 - d) enter the software channel for the wind speed channel (see hardware Configuration Certificate, e.g. '04')
 - e) enter the new Full Scale Value as calculated above - your entry must be 5 digits plus a decimal place, with no leading zeros.
 - f) enter the offset count as '0000'
 - g) enter the offset sign as '+'
 - h) the figures you have just entered will be displayed for you to confirm. If OK, press 'Y' and you will return to the Main Menu
 - i) press ESCAPE to return the DataHog2 to logging mode. The 'ANY KEY TO' message should appear every 10 seconds again
3. If you now offload the data from the logger as usual, (TOOLS, DATAHOG2, FAST DATA OFFLOAD), this new Full Scale Value will be used to recalculate all the data in the logger's memory into values in the new units (e.g. m.p.h.).
4. Write the new Full Scale Value on the Hardware Configuration Certificate in the front of the DataHog2 manual (wind speed channel) for your record.

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