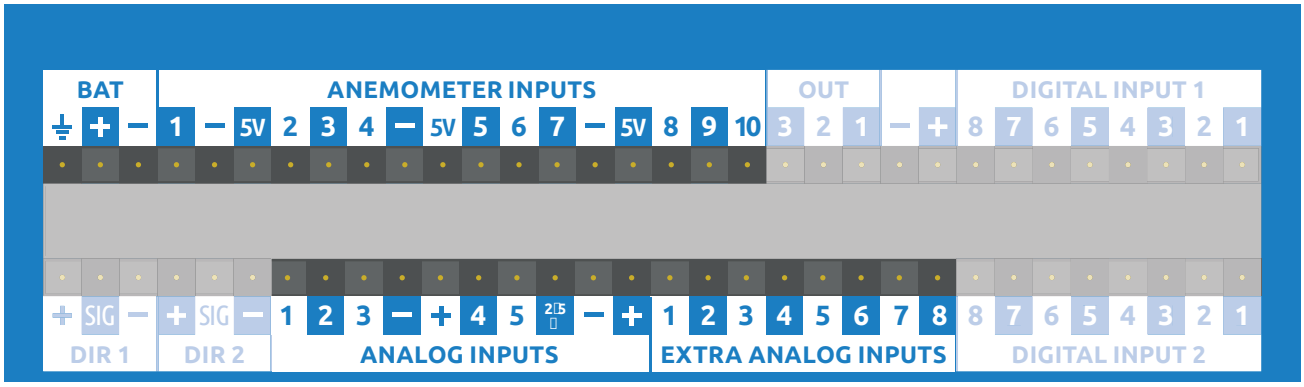
GEOVANE

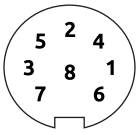
Wind direction measurements reinvented

INSTRUCTIONS

Use the following input channels on the logger to connect this sensor. See highligted input channels marked here below. The wire colors used in the connection diagram below only applies in case the cable is supplied by Kintech Engineering.

Depending on the number of pins to be used, the number of necessary wires can range from three (frequency output) to eight. **See section 3.2 of the manual** for detailed pinout and section 8 of the manual for how to configure.



SENSOR PIN DESCRIPTION			DATA LOGGER INPUT CHANNEL	
	1	Out (V1+)	Analog Inputs	1
	2	RS-485 A		
	3	Supply (+)	BAT	(+)
	4	RS-485 B		
	5	Out (V2+)	Analog Inputs	2
	6	Out (Hz)	Anemometer Inputs	1
	7	Supply (-)	BAT	(-)
	8	Out (-)	Analog Inputs	(-)
	-	Shield	BAT	GND

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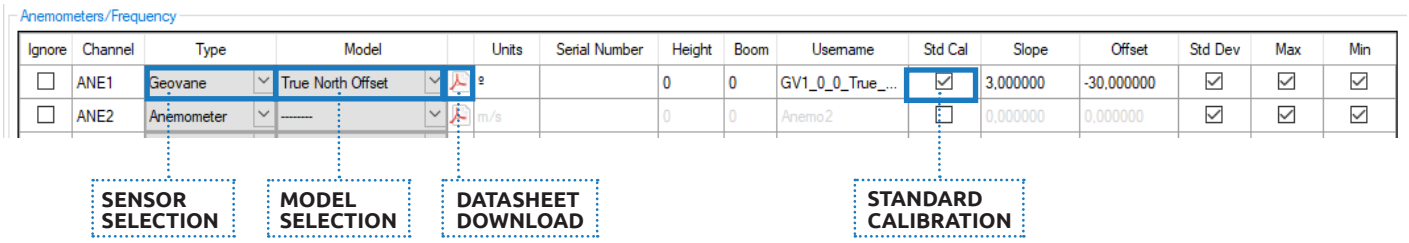
KINTECH ENGINEERING

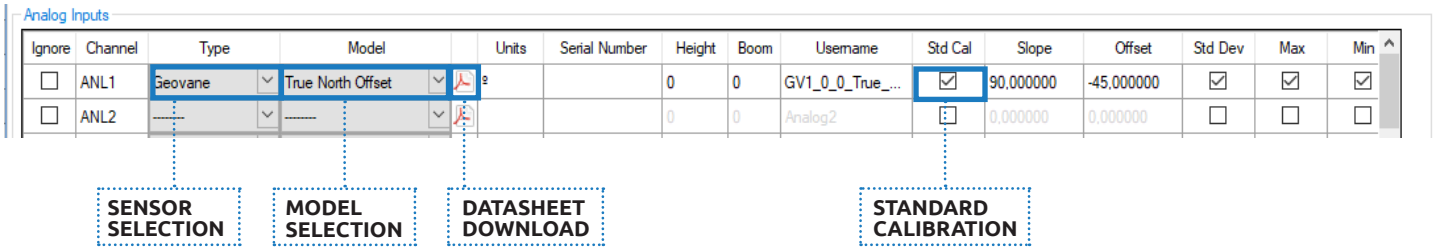
HOW TO CONFIGURE THIS SENSOR IN EOL MANAGER

Keep in mind that the configuration of a Geovane in EOL Manager has to be done according to its outputs configuration. Open EOL Manager and go to the data logger you are working on. Open the "inputs" tab and select the following type and model:

- **Section**: Anemometers/Frequency
- **Type**: Geovane
- **Model**: True North Offset



- **Section**: Analog Inputs
- **Type**: Geovane
- **Model**: True North Offset



IMPORTANT

- After configuring the sensor in EOL Manager make sure to upload the configuration file to your EOL Zenith data logger. See the "Quick User Guide" how to upload configuration files to the data logger.
- All sensor wire shields must be connected to the data logger GND terminal.
- The data logger should always be connected to a separated ground rod. **Not** to the lightning rod of the tower.
- For a precise measurement of the True North Offset, the wind wane coupled to the Geovane must have, at all times, its internal angular reference perfectly aligned with the Geovane's angular reference. **See section 4 of the manual.**
- It is recommended to always keep the **RS-485 cores** (pins 2 and 4) accessible from the ground so the Geovane can be re-configured and updated without having to dismount it.

Metallic measurement mast, grounded	Drawing of anemometer incl. isolator 	The shield should be connected to both the Geovane side and the data logger side Data logger should always be connected to ground
Metallic measurement mast, grounded	Drawing of anemometer **without** isolator 	The shield should only be connected on the data logger side **Not on the Geovane** Data logger should always be connected to ground

Last modified: 12.03.2018