

YOUNG | WIND MONITOR

05103

ALPINE 05108-45


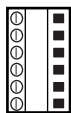


























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CABLE RECOMMENDATION

Wind speed signal cable up to 150m: **2x0.5 mm² + shield**.

Wind direction signal cable up to 150m: **3x0.5 mm² + shield**. For longer cable, please consult sensor manufacturer.

SENSOR WIRING TABLE

Sensor Model	Sensor Pin	Manufacturer Colors 1 cable		Kintech Colors 2 cables		Kintech Colors 1 cable		Orbit 360			EOL Zenith	
								Section	Terminal	Type	Section	Terminal
 	WS REF		Blue		Brown		Yellow	Frequency Channels	<div>1 4 7</div> <div>10 13</div> <div>16 19 22</div> <div>25 28</div>	(-)	Anemometer Inputs	(-)
	WS SIG		Red		White		Pink	Frequency Channels	<div>2 5 8</div> <div>11 14</div> <div>17 20 23</div> <div>26 29</div>	Signal	Anemometer Inputs	<div>1 2 3</div> <div>4 5</div> <div>6 7 8</div> <div>9 10</div>
					Yellow Green			Power Input	BAT		BAT	
	WD REF		Black		Brown		Brown	Analog Channels	<div>47 51 55</div> <div>59 64 68</div> <div>72 76 80</div> <div>87</div>	(-)	DIR	
	WD SIG		Green		White		White	Analog Channels	<div>48 52 56</div> <div>60 65 69</div> <div>73 77 81</div> <div>84 85 86</div> <div>90 91 92</div>	Signal	DIR	
	WD EXC		White		Green		Green	Analog Channels	<div>50 54 58</div> <div>62</div>	*5V	DIR	
	Shield		Yellow Green		Yellow Green		Yellow Green	Power Input			BAT	

Note: *5V,  = Pulsating 5V with current limited (4mA). Only 1 sensor must be powered per terminal.

Important! Please make sure you identify the 0° of the sensor (windvane).

REQUIRED DATA LOGGER VERSION

Minimum data logger required: **ORBIT 360 BASIC PLUS**.

Minimum **firmware** required: **any**.

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HOW TO CONFIGURE IN ATLAS

Start Atlas and open the data logger you are working on. Now go to *Site settings* and scroll down to the *Channels* section and select the following type and model:

WIND SPEED

- Group: Frequency channels
- Sensor Type: Anemometer
- Sensor Model: **Young 05103**

WIND DIRECTION

- Group: Analog channels
- Sensor Type: Windvane
- Sensor Model: **Young 05103**

Important! Please make sure you are working with the latest version of Atlas. To check for new updates click the *Check for updates* button in the left-hand menu located in the main dashboard.

HOW TO CONFIGURE THIS SENSOR ON SITE

We recommend performing the entire sensor configuration using Atlas at the office before installing sensors onsite. Once the sensor is correctly setup in Atlas, use the *Upload settings* tool, to upload the sensor configuration to the data logger.

In case you are already on site and need to configure the sensor directly on the data logger, follow these steps:

1. Turn on the data logger.
2. Using the keypad on the data logger, navigate the menu until you see *Sensor model*, then click the “right arrow” on the keypad.
3. Now scroll down to the channel you are going to connect the sensor to, and click the “right arrow” on the keypad.
4. Now click “Set” on the keypad and scroll up in the menu to set the sensor model type according to the table here below. Once you have found the correct sensor model, click the “right arrow” key twice to select it and save.
5. Click the “left arrow” several times to go back to the main menu.

Data logger model	Firmware version	Sensor model type on data logger		
		Magnitude	Number	Name
ORBIT 360	any	Wind speed	21	YOUNG_05103
		Wind direction	15	VANE YOUNG_05103
EOL ZENITH	any	Wind speed	21	YOUNG_05103
		Wind direction	15	VANE YOUNG_05103

HOW TO CONFIGURE IN EOL MANAGER

Open EOL Manager and go to *Settings* of the data logger you are working on. Open the *Inputs* tab and select the following type and model:

- Group: Anemometer/Frequency Inputs
- Sensor Type: Anemometer
- Sensor Model: **YOUNG 05103**
- Group: Wind Vanes/Analog Inputs
- Sensor Type: Windvane
- Sensor Model: **YOUNG 05103**

* 05108-45*

- Slope: 0.00833
- Offset: 0.1666

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For more information please contact web@kintech-engineering.com
or visit our website www.kintech-engineering.com