

THIES FIRST CLASS | WIND VANE

4.3151.10.020

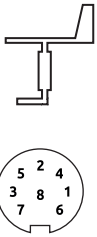

















4.3151.00.020 (heated)

CABLE RECOMMENDATION

Signal cable up to 150m: **4x0.5 mm² + shield**. For longer cable, please consult sensor manufacturer.

Heating cable cross-section should be calculated based on the power system requirements (Volts and Amps) and the cable length. Please use a wire sizing tool for selecting the most suitable cable.

SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Kintech Cable Colors		Kintech 5V adaptor			Orbit 360			EOL Zenith	
								Section	Terminal	Type	Section	Terminal
 Base sensor view / Soldering connector view.	1	Signal		White	S		White	Analog Channels	<div>48 52 56 60 65</div> <div>69 73 77 81 84</div> <div>85 86 90 91 92</div>	Signal	DIR	
	2	GND		Brown	-		Brown	Analog Channels	<div>47 51 55 59 64</div> <div>68 72 76 80 87</div>	(-)	DIR	
	6	AGND		Yellow	-		Yellow	Analog Channels	<div>47 51 55 59 64</div> <div>68 72 76 80 87</div>	(-)	DIR	
	3	Us (+)		Green	V		Green	Analog Channels	<div>49 53 57 61 66</div> <div>70 74 78 82 88</div>	* (+)	BAT	
	5		Do not connect									
	4		Do not connect									
		Shield		Yellow Green				Power Input			BAT	
	7	Heating (+)		Brown	Independent power supply 24 AC/DC							
	8	Heating (-)		Blue								

Note:

Data logger hardware version < 3, (+) = Bat+ with current limited (12mA). Only 1 sensor must be powered.

Data logger hardware version ≥ 3, (+) = Bat+ with current limited (50mA). Only 1 sensor must be powered.

REQUIRED DATA LOGGER VERSION

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

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

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:

- Group: Analog channels
- Sensor Type: Windvane
- Sensor Model: **Output 0-5V: Thies TMR / K360V**

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.

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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 direction	18	VANE Output 0-5V
EOL ZENITH	any	Wind direction	08	Output 0-5V

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: Wind Vanes / Analog Inputs
- Sensor Type: Windvane
- Sensor Model: **Output 0-5V**

Last modified: 03.05.2023