THIES FIRST CLASS 10BIT | WIND VANE

4.3151.10.001
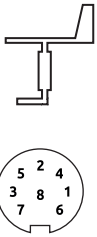
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CABLE RECOMMENDATION

Signal cable up to 150m: **6x0.5 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		10bit adaptor		Orbit 360			EOL Zenith	
							Section	Terminal	Type	Section	Terminal
	5	Signal	○	White	Data1 Data2	Dir1 Dir2	Analog Channels	48 52 56 60 65 69 73 77 81 84 85 86 90 91 92	Signal	DIR Analog Inputs	SIG SIG 1 2 3 4 5
	2	GND	●	Brown	GND	ANL-	Analog Channels	47 51 55 59 64 68 72 76 80 87	(-)	DIR Analog Inputs	− − − −
	6	DIG GND	●	Grey							
	3	Us (+)	●	Green	5V	Vcc	Power Input	⊕		BAT	+
Base sensor view / Soldering connector view.	1		Do not connect								
	4	Clock	●	Yellow	Clock1 Clock2	GND	Power Input	(-)		BAT	−
		Shield	◐	Yellow Green			Power Input	⏚		BAT	⏚
	7	Heating (+)	●	Brown	Independent power supply 24 AC/DC						
	8	Heating (-)	●	Blue							

This Adaptor can handle up to 2 windvanes of this model.
***Windvane1** (pin-in): Data1, Clock1; (pin-out): Dir1*
***Windvane2** (pin-in): Data2, Clock2; (pin-out): Dir2*

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.

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

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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:
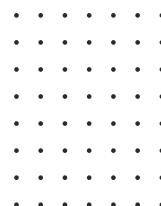
1. Turn on the data logger.
2. Using the keypad on the data logger, navigate the menu until you see *Sensor model*, then click the "right arrow" on the keypad.
3. Now scroll down to the channel you are going to connect the sensor to, and click the "right arrow" on the keypad.
4. Now click "Set" on the 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**

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