WARNING

The following is a series of wiring diagrams for several different sensors. Please locate the sensor you are going to use in the list below and follow the corresponding wiring diagram and setup in either Atlas or EOL Manager.

GILL WINDMASTER 3D | ULTRASONIC ANEMOMETER
WINDMASTER (0...50m/s)
WINDMASTER PRO (0...65m/s)

CABLE RECOMMENDATION

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

SENSOR WIRING TABLE

Sensor Model	Manufacturer colors & Sensor Pin				Kintech Cable Colors		Orbit 360		
							Section	Terminal	Type
	1	TXA-	🟢	Green	⚪	White	RS485	③④ ③⑧ ④②	B
	6	RXA-	⚪	White					
	2	TXB+	🟣	Pink	🟡	Yellow	RS485	③③ ③⑦ ④①	A
	5	RXB+	🟡	Yellow					
	12	0V	🟤	Brown	🟤	Brown	Power Input	-	
	4	-	⚪	Grey					
	11	V+	🔴	Red	🟢	Green	Power Input	⊕	
	Shield		🟡🟢	Yellow-Green		Power Input	⏚		

Sensor Model	Manufacturer colors & Sensor Pin				Kintech Cable Colors		ADAM	Charge regulator	*EOL Zenith	
									Section	Terminal
	1	TXA-	🟢	Green	⚪	White	DATA-			
	6	RXA-	⚪	White						
	2	TXB+	🟣	Pink	🟡	Yellow	DATA+			
	5	RXB+	🟡	Yellow						
	12	0V	🟤	Brown	🟤	Brown		BAT (-)	BAT	⊟
	4	-	⚪	Grey						
	11	V+	🔴	Red	🟢	Green		BAT (+)	BAT	⊞
	Shield		🟡🟢	Yellow-Green				BAT	⊟	
							Vs (+)	Load (+)		
							GND	Load (-)		

Note: This sensor has to be preconfigured before it is configured in Atlas software.

*EOL Zenith should have the Ultrasonic Module installed by Kintech Engineering beforehand.

REQUIRED DATA LOGGER VERSION

Minimum data logger required: **ORBIT 360 PREMIUM.**

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

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

Kintech engineering

GILL WINDMASTER 3D | ULTRASONIC ANEMOMETER
WINDMASTER (0...50m/s)
WINDMASTER PRO (0...65m/s)

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. The variables from the digital output signal can be chosen (or assigned) to either a frequency or an analog channel on the Orbit 360 Premium according to the list here below.

Example:

Serial bus 1 baud rate: 9600bps

Bus: Serial 1 >>> ID: A >>> Sensor model: Gill ultrasonic >>> Name: GL_SERIAL1_A

- Group: Frequency channels
- Sensor Type: Serial device
- Sensor Model: **GL_SERIAL1_A**
  - Sensor Model: **Horizontal Speed**

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **GL_SERIAL1_A**
  - Sensor Model: **Windvane**
  - Sensor Model: **Vertical Speed**
  - Sensor Model: **Temperature**

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 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
- Sensor Type: Ultrasonic
- Sensor Model: **Gill A**

- Group: Analog Inputs
- Sensor Type: Ultrasonic
- Sensor Model: **Gill A Windvane**
- Sensor Model: **Gill A Vert Anemo**
- Sensor Model: **Gill A Temperature**

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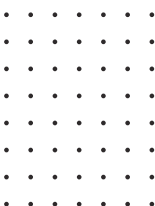
GILL WINDOBSERVER 2D | ULTRASONIC ANEMOMETER

WINDOBSERVER 65 (0...65m/s)   **WINDOBSERVER 70 (0...70m/s)**   **WINDOBSERVER 75 (0...75m/s)**

WINDOBSERVER 90 (0...90m/s)   **WINDOBSERVER II (0...65m/s)**

CABLE RECOMMENDATION

Signal cable up to 150m: **8x0.5 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	Manufacturer colors & Sensor Pin			Kintech Cable Colors		Orbit 360		
						Section	Terminal	Type
	Pair1	TXA-	⚫ Black	🟢	Green	RS485	34 38 42	B
		TXB+	🟢 Green	🟣	Pink	RS485	33 37 41	A
	Pair2	RXA-	⚫ Black	⚪	White	RS485	34 38 42	B
		RXB+	⚪ White	🟡	Yellow	RS485	33 37 41	A
	Pair3	V-	⚫ Black	🟤	Brown	Power Input	-	
		V+	🔴 Red	🔴	Red	Power Input	⊕	
	Pair4	0V	🔵 Blue	⚪	Grey	Power Input	-	
	Shield			🟡🟢	Yellow-Green	Power Input	⏚	
	Pair5	Heat-	⚫ Black	🔵	Blue	Independent power supply 24 AC/DC		
		Heat+	🟡 Yello	🟤	Brown			

Sensor Model	Manufacturer colors & Sensor Pin			Kintech Cable Colors		ADAM	Charge regulator	*EOL Zenith	
								Section	Terminal
	Pair1	TXA-	⚫ Black	🟢	Green	DATA-			
		TXB+	🟢 Green	🟣	Pink	DATA+			
	Pair2	RXA-	⚫ Black	⚪	White	DATA-			
		RXB+	⚪ White	🟡	Yellow	DATA+			
	Pair3	V-	⚫ Black	🟤	Brown		BAT (-)	BAT	⊟
		V+	🔴 Red	🔴	Red		BAT (+)	BAT	⊞
	Pair4	0V	🔵 Blue	⚪	Grey		BAT (-)	BAT	⊟
	Shield			🟡🟢	Yellow-Green			BAT	⏚
						Vs (+)	Load (+)		
						GND	Load (-)		
	Pair5	Heat-	⚫ Black	🔵	Blue	Independent power supply 24 AC/DC			
		Heat+	🟡 Yello	🟤	Brown				

Note: This sensor has to be preconfigured before it is configured in Atlas software.

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Kintech engineering

GILL WINDOBSERVER 2D | ULTRASONIC ANEMOMETER

WINDOBSERVER 65 (0...65m/s)   **WINDOBSERVER 70 (0...70m/s)**   **WINDOBSERVER 75 (0...75m/s)**

WINDOBSERVER 90 (0...90m/s)   **WINDOBSERVER II (0...65m/s)**

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Example:

Serial bus 1 baud rate: 9600bps

Bus: Serial 1 >>> ID: A >>> Sensor model: Gill ultrasonic >>> Name: GL_SERIAL1_A

- Group: Frequency channels
- Sensor Type: Serial device
- Sensor Model: **GL_SERIAL1_A**
  - Sensor Model: **Horizontal Speed**

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **GL_SERIAL1_A**
  - Sensor Model: **Windvane**
  - Sensor Model: **Temperature**

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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:

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- Sensor Type: Ultrasonic
- Sensor Model: **Gill A**

- Group: Analog Inputs
- Sensor Type: Ultrasonic
- Sensor Model: **Gill A Windvane**
- Sensor Model: **Gill A Temperature**

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