

## 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 mm<sup>2</sup> + 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		B
		TXB+		Green		Pink	RS485		A
	Pair2	RXA-		Black		White	RS485		B
		RXB+		White		Yellow	RS485		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+		Yellow		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+		Yellow		Brown				

**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**



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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. 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: **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 Temperature**

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