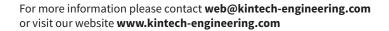




WARNING

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.



VAISALA WMT70X 2D | ULTRASONIC ANEMOMETER

WMT701 (0...40m/s)

WMT702 (0...65m/s)

WMT703 (0...75m/s)

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		Manufactu	urer co	lors	1	Kintech	Orbit 360			
Model		& Sens	sor Pin		Ca	ble Colors	Section	Terminal Type		
	16	RxTXA	0	White	0	White	RS485	34 38 42	В	
	9	RxTXB	•	Yellow	•	Yellow	RS485	33 37 41	А	
	11	Vin-		Brown		Brown				
	10	CGND		Grey			Power Input	-		
	1 Vin+ Pi		Pink		Green	Power Input	•			
		Shi	eld			Yellow-Green	Power Input	Ţ		
	5,6	Vh+				Brown	Independent power supply 24 AC/DC			
	7,8	Vh-				Blue	independer	AC/DC		

Sensor	N	lanufact	turer co	olors	Kintech		ADAM	Charge	*EOL Zenith	
Model	& Sensor Pin					ble Colors	ADAM	regulator	Section	Terminal
	16	RxTXA	0	White	0	White	DATA-			
	9	RxTXB	•	Yellow	•	Yellow	DATA+			
	11	Vin-		Brown		Brown		BAT (-)	BAT	-
	10	CGND		Grey						
	1	Vin+		Pink		Green		BAT (+)	BAT	+
		Sł	nield			Yellow-Green			BAT	Ŧ
							Vs (+)	Load (+)		
							GND	Load (-)		
	5,6	Vh+				Brown	Independent power supply 24 AC/DC			
	7,8	Vh-				Blue				

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.



VAISALA WMT70X 2D | ULTRASONIC ANEMOMETER

WMT701 (0...40m/s)

WMT702 (0...65m/s)

WMT703 (0...75m/s)

REQUIRED DATA LOGGER VERSION

Minimum data logger required: **ORBIT 360 PREMIUM.** 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. 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: Vaisala >>> Name: VA_SERIAL1_A
- Group: Frequency channels

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: VA_SERIAL1_A
 - Sensor Model: Horizontal Speed
- Sensor Type: Serial device
 Sensor Model: VA_SERIAL1_A
 - Sensor Model: Windvane

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
- Group: Analog Inputs
- Sensor Type: Ultrasonic
- Sensor Model: Vaisala

• Sensor Type: Ultrasonic

- Sensor Model: Vaisala
- Sensor Model: Vaisala



CABLE RECOMMENDATION

Signal cable up to 150m: 8x0.5 mm² + shield. For longer cable, please consult sensor manufacturer.

SENSOR WIRING TABLE

Sensor		Manufactu	urer colo	ors	к	intech	Orbit 360			
Model		& Sens	sor Pin		Cab	le Colors	Section	Terminal	Туре	
	9	RT-		Green		Green	RS485	34 38 42	В	
Т	14	RT+		Grey		Grey	RS485	33 37 41	А	
	10	RT-	0	White	0	White	RS485	34 38 42	В	
	12	RT+	•	Yellow	•	Yellow	RS485	33 37 41	А	
	1	GND		Brown		Brown	Power Input	-	-	
	11	12Vdc		Red		Red	Power Input	Ŧ		
	8	GND		Black		Pink	Power Input	-		
		Shi	eld			Yellow-Green	Power Input	<u> </u>		
		5,6	6,7		Connected together for RS422 and RS485 protocols					

Sensor						Kintech	ADAM	Charge	*EOL Zenith		
Model						ble Colors		regulator	Section	Terminal	
	9	RT-		Green		Green	DATA-				
_	14	RT+		Grey		Grey	DATA+				
T	10	RT-	\circ	White	\bigcirc	White	DATA-				
	12	RT+	•	Yellow	•	Yellow	DATA+				
	1	GND		Brown		Brown		BAT (-)	BAT	-	
	11	12Vdc		Red		Red		BAT (+)	BAT	+	
	8	GND		Black		Pink		BAT (-)	BAT	-	
	Shield					Yellow-Green			BAT	ŧ	
							Vs (+)	Load (+)			
							GND	Load (-)			
	5, 6, 7				Connected together for RS422 and RS485 protocols						

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**



VAISALA WS425 2D | ULTRASONIC ANEMOMETER

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: Vaisala >>> Name: VA_SERIAL1_A

- Group: Frequency channels
- Sensor Type: Serial device
- Sensor Model: VA_SERIAL1_A
 - Sensor Model: Horizontal Speed
- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: VA_SERIAL1_A
 - Sensor Model: Windvane

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: Vaisala

- Group: Analog Inputs
- Sensor Type: Ultrasonic
- Sensor Model: Vaisala

Last modified: 15.06.2021