

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 Model	Manufacturer colors & Sensor Pin				Kintech Cable Colors		Orbit 360		
							Section	Terminal	Type
	16	RxTXA	○	White	○	White	RS485	34 38 42	B
	9	RxTXB	●	Yellow	●	Yellow	RS485	33 37 41	A
	11	Vin-	●	Brown	●	Brown	Power Input	-	
	10	CGND	●	Grey	●	Brown			
	1	Vin+	●	Pink	●	Green	Power Input	+	
	Shield				●	Yellow-Green	Power Input	⏚	
	5, 6	Vh+			●	Brown	Independent power supply 24 AC/DC		
7, 8	Vh-			●	Blue				

Sensor Model	Manufacturer colors & Sensor Pin				Kintech Cable Colors		ADAM	Charge regulator	*EOL Zenith	
									Section	Terminal
	16	RxTXA	○	White	○	White	DATA-			
	9	RxTXB	●	Yellow	●	Yellow	DATA+			
	11	Vin-	●	Brown	●	Brown		BAT (-)	BAT	-
	10	CGND	●	Grey	●	Brown				
	1	Vin+	●	Pink	●	Green		BAT (+)	BAT	+
	Shield				●	Yellow-Green			BAT	⏚
								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.

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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 Type: Serial device |
| ● Sensor Model: VA_SERIAL1_A | ● Sensor Model: VA_SERIAL1_A |
| ● Sensor Model: Horizontal Speed | ● 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 Type: Ultrasonic |
| ● Sensor Model: Vaisala | ● Sensor Model: Vaisala |

Last modified: 15.06.2021

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

