VAISALA WS425 2D | ULTRASONIC ANEMOMETER

CABLE RECOMMENDATION

Signal cable up to 150m: **8x0.5 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
	9	RT-	Green		Green	RS485	34 38 42	B
	14	RT+	Grey		Grey	RS485	33 37 41	A
	10	RT-	White		White	RS485	34 38 42	B
	12	RT+	Yellow		Yellow	RS485	33 37 41	A
	1	GND	Brown		Brown	Power Input	-	
	11	12Vdc	Red		Red	Power Input	+	
	8	GND	Black		Pink	Power Input	-	
	Shield				Yellow-Green	Power Input	⏚	
	5, 6, 7			Connected together for RS422 and RS485 protocols				

Sensor Model	Manufacturer colors & Sensor Pin			Kintech Cable Colors		ADAM	Charge regulator	*EOL Zenith	
								Section	Terminal
	9	RT-	Green		Green	DATA-			
	14	RT+	Grey		Grey	DATA+			
	10	RT-	White		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	⏚
						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**

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**

For more information please contact **web@kintech-engineering.com**
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