KIPP & ZONEN DUST IQ | SOILING

SENSOR WIRING TABLE

Sensor Model	Sensor Pin	Manufacturer Cable Colors		Orbit 360		
				Section	Terminal	Type
	RS485 (B+)	🟡	Yellow	RS485	㉝ �37 ㊶	A1, A2, A3
	RS485 (A-)	⚪	Grey	RS485	�34 �38 ㊷	B1, B2, B3
	Vcc (+)	⚪	White	Power Input	⊕	
	Reference GND	🔵⚫	Blue Black	Power Input	(-)	

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

RS485 DIGITAL OUTPUT:

Parameter	Sensor settings
Baudrate	9600
Data bits	8
Parity	None
Stop bits	1

REQUIRED DATA LOGGER VERSION

Minimum data logger required: **ORBIT 360 PREMIUM**.
Minimum **firmware** required: **2.39**.

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 according to the list here below.

Example:

Serial bus 1 baud rate: 9600bps

Bus: Serial 1 >>> ID: A >>> Sensor model: DustIQ >>> Name: DIQ_SERIAL1_A

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **DIQ_SERIAL1_A**
    - Sensor Model: **Soiling Ratio Sensor 1**
    - Sensor Model: **Soiling Ratio Sensor 2**
    - Sensor Model: **Trasmission Loss Sensor 1**
    - Sensor Model: **Trasmission Loss Sensor 2**

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.

Sensor response time: **35ms**.
The sum of the response times of all the sensors connected to the same bus must not exceed 850ms.

Last modified: 09.10.2023

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

Kintech engineering