



kintech
engineering

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.

HUKSEFLUX - OUTPUT: mV | PYRANOMETER

SR20-T1 SR11

SR15-A1 SR12

SR05-A1 LP02

SENSOR WIRING TABLE

Sensor Model	Manufacturer Cable Colors		Kintech AMPVAR* Kintech Colors				Orbit 360			EOL Zenith		
							Section	Terminal	Type	Section	Type	
		Green	A	K		Brown	Analog Channels	47 51 55 59 64 68 72 76 80 87	(-)	Analog Inputs		
		White	B	L		White	Analog Channels	48 52 56 60 65 69 73 77 81 84 85 86 90 91 92	Signal	Analog Inputs		
				H		Green	Power Input				Extra Analog	
				G		Do not connect					BAT	

Note: *AMPVAR amplifier is provided by Kintech Engineering.

Consult to the Solar department (solar@kintech-engineering.com) for its configuration and Slope and Offset.

REQUIRED DATA LOGGER VERSION

Minimum data logger required: **ORBIT 360 BASIC PLUS**.

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:

- Group: Analog channels
- Sensor Type: Radiation
- Sensor Model: **Thermopile**

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.



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SR20-T1	SR11
SR15-A1	SR12
SR05-A1	LP02

HOW TO CONFIGURE THIS SENSOR ON SITE

We recommend performing the entire sensor configuration using Atlas at the office before installing sensors onsite. Once the sensor is correctly setup in Atlas, use the *Upload settings* tool, to upload the sensor configuration to the data logger.

In case you are already on site and need to configure the sensor directly on the data logger, follow these steps:

1. Turn on the data logger.
2. Using the keypad on the data logger, navigate the menu until you see *Sensor model*, then click the “right arrow” on the keypad.
3. Now scroll down to the channel you are going to connect the sensor to, and click the “right arrow” on the keypad.
4. Now click “Set” on the keypad and scroll up in the menu to set the sensor model type according to the table here below. Once you have found the correct sensor model, click the “right arrow” key twice to select it and save.
5. Click the “left arrow” several times to go back to the main menu.

Data logger model	Firmware version	Sensor model type on data logger		
		Magnitude	Number	Name
ORBIT 360	any	Solar radiation	42	THERMOPILE
EOL ZENITH	any	Solar radiation	42	THERMOPILE

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: Analog Inputs
- Sensor Type: Radiation
- Sensor Model: **Thermopile**



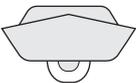
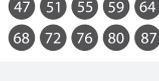
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HUKSEFLUX - OUTPUT: mV | ALBEDOMETER

SRA20-T1 2X SR11 + AMF02 mounting fixture

SRA15-A1

SENSOR WIRING TABLE

Sensor Model	Manufacturer Cable Colors		Kintech AMPVAR* Kintech Colors				Orbit 360			EOL Zenith	
							Section	Terminal	Type	Section	Type
 Global Radiation		Green	A	K		Brown	Analog Channels		(-)	Analog Inputs	
		White	B	L		White	Analog Channels		Signal	Analog Inputs	
				H		Green	Power Input			Extra Analog	
				G	Do not connect					BAT	
 Reflected Radiation		Green	A	K		Brown	Analog Channels		(-)	Analog Inputs	
		White	B	L		White	Analog Channels		Signal	Analog Inputs	
				H		Green	Power Input			Extra Analog	
				G	Do not connect					BAT	

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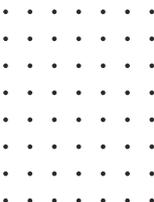
GLOBAL RADIATION

- Group: Analog channels
- Sensor Type: Radiation
- Sensor Model: **Thermopile**

REFLECTED RADIATION

- Group: Analog channels
- Sensor Type: Radiation
- Sensor Model: **Thermopile**

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REFLECTED RADIATION

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

