

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.

KIPP & ZONEN - OUTPUT: 4-20mA | PYRANOMETER

SMP3 SMP6 SMP10 SMP11 SMP21 SMP22

SENSOR WIRING TABLE

Sensor	Sensor Pin Manufacturer Colors			Kintech Connector R: 249 Ω (0.1%)			tor	Orbit 360			EOL Zenith	
Model							b)	Section	Terminal	Туре	Section	Туре
						0	White	Analog Channels	47 51 55 59 64 68 72 76 80 87	(-)	Analog Inputs	
		Green	4-20mA (+)	٩	s	Green	Green	Analog	48 52 56 60 65 69 73 77 81 84	Signal	Analog Inputs	1 2 3 4 5
		Oreen.	1 2011111 (1)				Channels	85 86 90 91 92	o.ga.	Extra Analog	1 2 3 4 5 6 7 8	
		Brown	4-20mA (-)	•		Black	Power	(-)		BAT	-	
		Black	Supply (-)	-			Diack	Input (-)		DAI		
		White	Supply (+)	+		•	Red	Power Input	•		BAT	±

Note: $4 \text{ mA} \rightarrow 0 \text{ W/m2}$; $20\text{mA} \rightarrow 1600 \text{ W/m2}$

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

Sensor Type: 401.6064

• Sensor Type: -400

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.



KIPP & ZONEN - OUTPUT: 4-20mA | PYRANOMETER

 SMP3
 SMP6
 SMP10

 SMP11
 SMP21
 SMP22

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					
Data logger model	Firmware version	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**Sensor Type: 401.6064
Sensor Type: -400

KIPP & ZONEN - OUTPUT: 4-20mA | ALBEDOMETER

SMP3 + mounting rod

SMA6

SMA11

SMP21 + CMF1 mounting fixture

SMP22 + CMF1 mounting fixture

SENSOR WIRING TABLE

	Sensor	ensor Sensor Pin			Kintech Connector			tor	Orbit 360			EOL Zenith	
	Model	Ма	nufactu	rer Colors		R: 249Ω (0.1%)		Section	Terminal	Туре	Section	Туре	
							0	White	Analog Channels	47 51 55 59 64 68 72 76 80 87	(-)	Analog Inputs	-
/			Green	4-20mA (+)	S			Green	Analog	48 52 56 60 65 69 73 77 81 84	Signal	Analog Inputs	1 2 3 4 5
				, ,					Channels	85 86 99 91 92		Extra Analog	1 2 3 4 5 6 7 8
	Global Radiation		Brown	4-20mA (-)	_			Black	Power	(-)		BAT	-
	Radiation		Black	Supply (-)				Dia on	Input	()		571.	
		\bigcirc	White	Supply (+)	+			Red	Power Input	+		BAT	+
						•	0	White	Analog Channels	47 51 55 59 64 68 72 76 80 87	(-)	Analog Inputs	-
7			Green	4-20mA (+)	S		•	Green	Analog Channels	48 52 56 60 65 69 73 77 81 84 85 86 90 91 92	Signal	Analog Inputs	1 2 3 4 5
`			Green	4-2011IA (1)	3	Ţ					Jigilat	Extra Analog	1 2 3 4 5 6 7 8
	Reflected Radiation		Brown	4-20mA (-)	-	•		Black	Power Input	(-)		BAT	-
			Black	Supply (-)					прис				
		\circ	White	Supply (+)	+		•	Red	Power Input	•		BAT	+

Note: $4 \text{ mA} \rightarrow 0 \text{ W/m2}$; $20\text{mA} \rightarrow 1600 \text{ W/m2}$

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:

GLOBAL RADIATION

• Group: Analog channels

Sensor Type: Radiation

Sensor Model: Thermopile

• Slope: 401.6064

• Offset: -400

REFLECTED RADIATION

Group: Analog channels

Sensor Type: Radiation

Sensor Model: Thermopile

• Slope: 401.6064

Offset: -400

Important! Please make sure you are working with the latest version of Atlas. To check for new updates click the *Check for*



KIPP & ZONEN - OUTPUT: mV | ALBEDOMETER

SMP3 + mounting rod SMA6 SMA11

SMP21 + CMF1 mounting fixture SMP22 + CMF1 mounting fixture

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Data logger model	Firmware version	Magnitude	Number	Name			
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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:

GLOBAL RADIATION

Group: Analog InputsSensor Type: RadiationSensor Model: Thermopile

Slope: 401.6064Offset: -400

REFLECTED RADIATION

Group: Analog InputsSensor Type: RadiationSensor Model: Thermopile

Slope: 401.6064Offset: -400

