



# 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 SR300-D1 | CLASS A PYRANOMETER

OUTPUT: RS485

SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Manufacturer Cable Colors		Kintech Cable Colors		Orbit 360		
							Section	Terminal	Type
	RS_A	RS485 (A)		White		Yellow	RS485	  	A1, A2, A3
	RS_B	RS485 (B)		Grey		Grey	RS485	  	B1, B2, B3
	RS_(-)	Data GND		Blue		Pink	RS485	 	(-)
	(+)	Vcc (+)		Brown		Brown	Power Input	 *	
	(-)	GND		Black		White	Power Input	(-)	
	Shield			Yellow		Yellow Green	Power Input		

\* Exclusively use the power supply directly from the battery.

**Note:** This sensor has to be preconfigured before it is configured in Atlas software. Data bits, Parity and Stop bits must be set to 8, None and 1 respectively. Furthermore, keep in mind that the configuration of the sensor itself has to match the setting of the sensor in Atlas (baudrate and device ID).

RS485 DIGITAL OUTPUT:

Parameter	OEM Sensor settings	Kintech Sensor settings
Baudrate	19200	9600
Data bits	8	8
Parity	Even	None
Stop bits	1	1

REQUIRED DATA LOGGER VERSION

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

Minimum **firmware** required: **2.41**.



## HUKSEFLUX SR300-D1 | CLASS A PYRANOMETER

### OUTPUT: RS485

#### 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 instruments

Steps to add a serial instrument (instrument with digital output) in Atlas:

- 1.- Start by pressing the '+' here in 'Serial instruments'. Then fill in the Bus, Id and Sensor model fields. The name of the sensor is set automatically, however can be modified manually.
- 2.- Choose the baud rate for the serial instruments on each specific bus.
- 3.- You can now associate the different variables from the serial instrument to the frequency or analog channels by clicking the '+' in the Frequency channels / Serial instrument variables or Analog channels / Serial instrument variables located further below. Now select 'Serial instrument' as sensor type as well as the sensor name and variable.

Bus	ID	Sensor model	Name
SERIAL1	A	Pyranometer SR-xx-Dx	SR300-D1_SERIAL1_A

### Serial buses baud rates

Serial bus 1 baud rate

9600 bps

### Analog channels / Serial instrument variables

ANL1 to ANL15 are used for connecting sensors with analog output or mapping serial instrument variables.  
ANL16 to ANL23 are exclusively for mapping serial instrument variables.

+ Channel	Sensor type	Sensor model	Height	Name	Std Dev	Min	Max	
ANL1	Serial instrument	SR300-D1_SERIAL1_A	Compensated GI	0	A1_RAD_0_0_SR300-D1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<div><div><div>Ignore channel</div><div><input type="checkbox"/></div></div><div><div>Serial number</div><div></div></div><div><div>Units</div><div>W/m2</div></div><div><div>Connection Diagram</div><div></div></div><div><div>Boom orientation</div><div>0</div></div><div><div>Radiation measure</div><div>GHI</div></div><div><div>Real Slope (Dev)</div><div>409,6</div></div><div><div>Real Offset (Dev)</div><div>-20</div></div></div> <div><div>Calibration</div><div><div>Standard calibration</div><div><input checked="" type="checkbox"/></div><div>Slope</div><div>1</div><div>Offset</div><div>0</div></div><div><div>Number of decimals</div><div>General</div><div>1</div><div>Max Min</div><div>1</div><div>Std Dev</div><div>1</div></div><div><div>Number of decimals real time</div><div>All</div><div>1</div></div></div>								

**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: **264ms**.

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

HUKSEFLUX SR200-D1 | CLASS A PYRANOMETER

OUTPUT: RS485

SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Manufacturer Cable Colors		Kintech Cable Colors		Orbit 360		
							Section	Terminal	Type
	RS_A	RS485 (A)		White		Yellow	RS485	  	A1, A2, A3
	RS_B	RS485 (B)		Grey		Grey	RS485	  	B1, B2, B3
	RS_(-)	Data GND		Blue		Pink	RS485	 	(-)
	(+)	Vcc (+)		Brown		Brown	Power Input	 *	
	(-)	GND		Black		White	Power Input	(-)	
	Shield			Yellow		Yellow Green	Power Input		

\* Exclusively use the power supply directly from the battery.

**Note:** This sensor has to be preconfigured before it is configured in Atlas software. Data bits, Parity and Stop bits must be set to 8, None and 1 respectively. Furthermore, keep in mind that the configuration of the sensor itself has to match the setting of the sensor in Atlas (baudrate and device ID).

RS485 DIGITAL OUTPUT:

Parameter	OEM Sensor settings	Kintech Sensor settings
Baudrate	19200	9600
Data bits	8	8
Parity	Even	None
Stop bits	1	1

REQUIRED DATA LOGGER VERSION

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

Minimum **firmware** required: **2.41**.



## HUKSEFLUX SR200-D1 | CLASS A PYRANOMETER

### OUTPUT: RS485

#### 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 instruments

Steps to add a serial instrument (instrument with digital output) in Atlas:

- 1.- Start by pressing the '+' here in 'Serial instruments'. Then fill in the Bus, Id and Sensor model fields. The name of the sensor is set automatically, however can be modified manually.
- 2.- Choose the baud rate for the serial instruments on each specific bus.
- 3.- You can now associate the different variables from the serial instrument to the frequency or analog channels by clicking the '+' in the Frequency channels / Serial instrument variables or Analog channels / Serial instrument variables located further below. Now select 'Serial instrument' as sensor type as well as the sensor name and variable.

Bus	ID	Sensor model	Name	
SERIAL1	A	Pyranometer SR-xx-Dx	SR200-D1_SERIAL1_A	 




### Serial buses baud rates


Serial bus 1 baud rate

9600 bps

### Analog channels / Serial instrument variables


ANL1 to ANL15 are used for connecting sensors with analog output or mapping serial instrument variables.  
ANL16 to ANL23 are exclusively for mapping serial instrument variables.

+ Channel	Sensor type	Sensor model	Height	Name	Std Dev	Min	Max	
ANL1	Serial instrument	SR200-D1_SERIAL1_A	Compensated GI	0	A1_RAD_0_0_SR200-D1			

Ignore channel 

Serial number

Units

Connection Diagram 


Boom orientation

Radiation measure

Real Slope (Dev)

Real Offset (Dev)

### Calibration

Standard calibration  Slope  Offset

Number of decimals

General  Max Min  Std Dev

Number of decimals real time

All

**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: **264ms**.

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

HUKSEFLUX SR100-D1 | CLASS B PYRANOMETER

OUTPUT: RS485

SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Manufacturer Cable Colors		Kintech Cable Colors		Orbit 360		
							Section	Terminal	Type
	RS_A	RS485 (A)		White		Yellow	RS485	  	A1, A2, A3
	RS_B	RS485 (B)		Grey		Grey	RS485	  	B1, B2, B3
	RS_(-)	Data GND		Blue		Pink	RS485	 	(-)
	(+)	Vcc (+)		Brown		Brown	Power Input	 *	
	(-)	GND		Black		White	Power Input	(-)	
	Shield			Yellow		Yellow Green	Power Input		

\* Exclusively use the power supply directly from the battery.

**Note:** This sensor has to be preconfigured before it is configured in Atlas software. Data bits, Parity and Stop bits must be set to 8, None and 1 respectively. Furthermore, keep in mind that the configuration of the sensor itself has to match the setting of the sensor in Atlas (baudrate and device ID).

RS485 DIGITAL OUTPUT:

Parameter	OEM Sensor settings	Kintech Sensor settings
Baudrate	19200	9600
Data bits	8	8
Parity	Even	None
Stop bits	1	1

REQUIRED DATA LOGGER VERSION

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

Minimum **firmware** required: **2.41**.



## HUKSEFLUX SR100-D1 | CLASS B PYRANOMETER

### OUTPUT: RS485

#### 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 instruments

Steps to add a serial instrument (instrument with digital output) in Atlas:

- 1.- Start by pressing the '+' here in 'Serial instruments'. Then fill in the Bus, Id and Sensor model fields. The name of the sensor is set automatically, however can be modified manually.
- 2.- Choose the baud rate for the serial instruments on each specific bus.
- 3.- You can now associate the different variables from the serial instrument to the frequency or analog channels by clicking the '+' in the Frequency channels / Serial instrument variables or Analog channels / Serial instrument variables located further below. Now select 'Serial instrument' as sensor type as well as the sensor name and variable.

Bus	ID	Sensor model	Name	
SERIAL1	A	Pyranometer SR-xx-Dx	SR100-D1_SERIAL1_A	  









### Serial buses baud rates

Serial bus 1 baud rate

9600 bps

### Analog channels / Serial instrument variables

ANL1 to ANL15 are used for connecting sensors with analog output or mapping serial instrument variables.  
ANL16 to ANL23 are exclusively for mapping serial instrument variables.

+ Channel	Sensor type	Sensor model	Height	Name	Std Dev	Min	Max	
 ANL1	Serial instrument	SR100-D1_SERIAL1_A	Compensated GI	0	A1_RAD_0_0_SR100-D1			 
Ignore channel 	Serial number		Calibration					
	Units	W/m2	Standard calibration 	Slope	1	Offset	0	
Connection Diagram 	Boom orientation	0	Number of decimals					
	Radiation measure	GHI	General	1	Max Min	1	Std Dev	1
	Real Slope (Dev)	409,6	Number of decimals real time					
	Real Offset (Dev)	-20	All	1				

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Sensor response time: **264ms**.

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

## HUKSEFLUX SR30-M2-D1 | PYRANOMETER

OUTPUT: RS485

### SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Manufacturer Cable Colors		Orbit 360		
					Section	Terminal	Type
	RS_A	RS485 (A)		White	RS485	  	A1, A2, A3
	RS_B	RS485 (B)		Grey	RS485	  	B1, B2, B3
	RS_(-)	Data GND		Blue	RS485	 	(-)
	(+)	Vcc (+)		Brown	Power Input	 *	
	(-)	GND		Black	Power Input	(-)	
	Shield			Yellow	Power Input		

\* Exclusively use the power supply directly from the battery.

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

### RS485 DIGITAL OUTPUT:

Parameter	OEM Sensor settings	Kintech Sensor settings
Baudrate	19200	9600
Data bits	8	8
Parity	Even	None
Stop bits	1	1

### REQUIRED DATA LOGGER VERSION

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

Minimum **firmware** required: **2.41**.

### 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: Pyranometer SR-xx-Dx >>> Name: SRxx\_SERIAL1\_A

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **SRxx\_SERIAL1\_A**
  - Sensor Model: **Compensated GI**
  - Sensor Model: **Tilt**
  - Sensor Model: **Heater Current**
  - Sensor Model: **Fan Speed**

**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: **264ms**.


















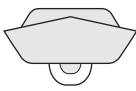
















**The sum of the response times of all the sensors connected to the same bus must not exceed 850ms.**



# HUKSEFLUX SRA30-M2-D1 | ALBEDOMETER

## OUTPUT: RS485

### SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Manufacturer Cable Colors		Orbit 360		
					Section	Terminal	Type
 Global Radiation	RS_A	RS485 (A)		White	RS485	  	A1, A2, A3
	RS_B	RS485 (B)		Grey	RS485	  	B1, B2, B3
	RS_(-)	Data GND		Blue	RS485	 	(-)
	(+)	Vcc (+)		Brown	Power Input	 *	
	(-)	GND		Black	Power Input	(-)	
	Shield			Yellow-Green	Power Input		
 Reflected Radiation	RS_A	RS485 (A)		White	RS485	  	A1, A2, A3
	RS_B	RS485 (B)		Grey	RS485	  	B1, B2, B3
	RS_(-)	Data GND		Blue	RS485	 	(-)
	(+)	Vcc (+)		Brown	Power Input	 *	
	(-)	GND		Black	Power Input	(-)	
	Shield			Yellow-Green	Power Input		

\* Exclusively use the power supply directly from the battery.

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

### RS485 DIGITAL OUTPUT:

Parameter	OEM Sensor settings	Kintech Sensor settings
Baudrate	19200	9600
Data bits	8	8
Parity	Even	None
Stop bits	1	1

### REQUIRED DATA LOGGER VERSION

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

Minimum **firmware** required: **2.41**.

### 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.

**HUKSEFLUX SRA30-M2-D1 | ALBEDOMETER**  
**OUTPUT: RS485**

**Example:**

Serial bus 1 baud rate: 9600bps  
Bus: Serial 1 >>> ID: A >>> Sensor model: Pyranometer SR-xx-Dx >>> Name: SRxx\_SERIAL1\_A

GLOBAL RADIATION	REFLECTED RADIATION
<ul style="list-style-type: none"><li>• Group: Analog channels</li><li>• Sensor Type: Serial device</li><li>• Sensor Model: <b>SRxx_SERIAL1_A</b><ul style="list-style-type: none"><li>• Sensor Model: <b>Compensated GI</b></li><li>• Sensor Model: <b>Tilt</b></li><li>• Sensor Model: <b>Heater Current</b></li><li>• Sensor Model: <b>Fan Speed</b></li></ul></li></ul>	<ul style="list-style-type: none"><li>• Group: Analog channels</li><li>• Sensor Type: Serial device</li><li>• Sensor Model: <b>SRxx_SERIAL1_A</b><ul style="list-style-type: none"><li>• Sensor Model: <b>Compensated GI</b></li><li>• Sensor Model: <b>Tilt</b></li><li>• Sensor Model: <b>Heater Current</b></li><li>• Sensor Model: <b>Fan Speed</b></li></ul></li></ul>


















**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 (each): **264ms**.  
**The sum of the response times of all the sensors connected to the same bus must not exceed 850ms.**

## HUKSEFLUX SR20-D2 | PYRANOMETER

### OUTPUT: RS485

#### SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Manufacturer Cable Colors		Orbit 360		
					Section	Terminal	Type
	RS_A	RS485 (A)		White	RS485	  	A1, A2, A3
	RS_B	RS485 (B)		Green	RS485	  	B1, B2, B3
	(+)	Vcc (+)		Red	RS485	 	*(+)
	(-)	GND		Blue	RS485	 	(-)
	Shield			Black	Power Input		

**Note:** \*(+) = Bat+ with current limited (200mA). Only 1 sensor must be powered per terminal.  
This sensor has to be preconfigured before it is configured in Atlas software.

#### RS485 DIGITAL OUTPUT:

Parameter	OEM Sensor settings	Kintech Sensor settings
Baudrate	19200	9600
Data bits	8	8
Parity	Even	None
Stop bits	1	1

#### REQUIRED DATA LOGGER VERSION

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

Minimum **firmware** required: **2.41**.

#### 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: Pyranometer SR-xx-Dx >>> Name: SRxx\_SERIAL1\_A

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **SRxx\_SERIAL1\_A**
  - Sensor Model: **Compensated GI**

**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: **29ms**.








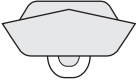






**The sum of the response times of all the sensors connected to the same bus must not exceed 850ms.**



# HUKSEFLUX SRA20-D2 | ALBEDOMETER

## OUTPUT: RS485

### SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Manufacturer Cable Colors		Orbit 360		
					Section	Terminal	Type
 Global Radiation	RS_A	RS485 (A)		White	RS485	33 37 41	A1, A2, A3
	RS_B	RS485 (B)		Green	RS485	34 38 42	B1, B2, B3
	(+)	Vcc (+)		Red	RS485	36 40	* (+)
	(-)	GND		Blue	RS485	35 39	(-)
	Shield			Black	Power Input		
 Reflected Radiation	RS_A	RS485 (A)		White	RS485	33 37 41	A1, A2, A3
	RS_B	RS485 (B)		Green	RS485	34 38 42	B1, B2, B3
	(+)	Vcc (+)		Red	RS485	36 40	* (+)
	(-)	GND		Blue	RS485	35 39	(-)
	Shield			Black	Power Input		

**Note:** \*(+) = Bat+ with current limited (200mA). Only 1 sensor must be powered per terminal.  
This sensor has to be preconfigured before it is configured in Atlas software.

### RS485 DIGITAL OUTPUT:

Parameter	OEM Sensor settings	Kintech Sensor settings
Baudrate	19200	9600
Data bits	8	8
Parity	Even	None
Stop bits	1	1

### 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: Pyranometer SR-xx-Dx >>> Name: SRxx\_SERIAL1\_A

#### GLOBAL RADIATION

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **SRxx\_SERIAL1\_A**
  - Sensor Model: **Compensated GI**

#### REFLECTED RADIATION

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **SRxx\_SERIAL1\_A**
  - Sensor Model: **Compensated GI**

**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: **29ms (each pyranometer).**

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

## HUKSEFLUX SR15-D1 | PYRANOMETER

### OUTPUT: RS485

#### SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Manufacturer Cable Colors		Orbit 360		
					Section	Terminal	Type
	RS_A	RS485 (A)		White	RS485	  	A1, A2, A3
	RS_B	RS485 (B)		Grey	RS485	  	B1, B2, B3
	(+)	Vcc (+)		Brown	RS485	 	*(+)
	(-)	GND		Black	RS485	 	(-)
	Shield			Yellow	Power Input		

**Note:** \*(+) = Bat+ with current limited (200mA). Only 1 sensor must be powered per terminal.  
This sensor has to be preconfigured before it is configured in Atlas software.

#### RS485 DIGITAL OUTPUT:

Parameter	OEM Sensor settings	Kintech Sensor settings
Baudrate	19200	9600
Data bits	8	8
Parity	Even	None
Stop bits	1	1

#### REQUIRED DATA LOGGER VERSION

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

Minimum **firmware** required: **2.41**.

#### 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: Pyranometer SR-xx-Dx >>> Name: SRxx\_SERIAL1\_A

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **SRxx\_SERIAL1\_A**
  - Sensor Model: **Compensated GI**















**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.



# HUKSEFLUX SRA15-D1 | ALBEDOMETER

OUTPUT: RS485

## SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Manufacturer Cable Colors		Orbit 360		
					Section	Terminal	Type
<div>  <p>Global Radiation</p> </div>	RS_A	RS485 (A)		White	RS485	33 37 41	A1, A2, A3
	RS_B	RS485 (B)		Grey	RS485	34 38 42	B1, B2, B3
	(+)	Vcc (+)		Brown	RS485	36 40	* (+)
	(-)	GND		Black	RS485	35 39	(-)
	Shield			Yellow	Power Input		
<div>  <p>Reflected Radiation</p> </div>	RS_A	RS485 (A)		White	RS485	33 37 41	A1, A2, A3
	RS_B	RS485 (B)		Grey	RS485	34 38 42	B1, B2, B3
	(+)	Vcc (+)		Brown	RS485	36 40	* (+)
	(-)	GND		Black	RS485	35 39	(-)
	Shield			Yellow	Power Input		

**Note:** \*(+) = Bat+ with current limited (200mA). Only 1 sensor must be powered per terminal.  
 This sensor has to be preconfigured before it is configured in Atlas software.

## RS485 DIGITAL OUTPUT:

Parameter	OEM Sensor settings	Kintech Sensor settings
Baudrate	19200	9600
Data bits	8	8
Parity	Even	None
Stop bits	1	1

## 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: Pyranometer SR-xx-Dx >>> Name: SRxx\_SERIAL1\_A

### GLOBAL RADIATION

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **SRxx\_SERIAL1\_A**
  - Sensor Model: **Compensated GI**

### REFLECTED RADIATION

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **SRxx\_SERIAL1\_A**
  - Sensor Model: **Compensated GI**


















**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.



## HUKSEFLUX SR05-D1A3\_PV | PYRANOMETER

OUTPUT: RS485

### SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Manufacturer Cable Colors		Orbit 360		
					Section	Terminal	Type
	RS_A	RS485 (A)		White	RS485	  	A1, A2, A3
	RS_B	RS485 (B)		Grey	RS485	  	B1, B2, B3
	(+)	Vcc (+)		Brown	RS485	 	*(+)
	(-)	GND		Black	RS485	 	(-)
	Shield			Yellow	Power Input		

**Note:** \*(+)= Bat+ with current limited (200mA). Only 1 sensor must be powered per terminal.  
This sensor has to be preconfigured before it is configured in Atlas software.

### RS485 DIGITAL OUTPUT:

Parameter	OEM Sensor settings	Kintech Sensor settings
Baudrate	19200	9600
Data bits	8	8
Parity	Even	None
Stop bits	1	1

### REQUIRED DATA LOGGER VERSION

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

Minimum **firmware** required: **2.41**.

### 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: Pyranometer SR-xx-Dx >>> Name: SRxx\_SERIAL1\_A

- Group: Analog channels
- Sensor Type: Serial device
- Sensor Model: **SRxx\_SERIAL1\_A**
  - Sensor Model: **Compensated GI**

**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.

Last modified: 09.12.2025

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