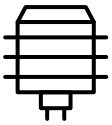
NRG 110S | TEMPERATURE

CABLE RECOMMENDATION

Signal cable up to 150m: **3x0.5 mm² + shield**. For longer cable, please consult sensor manufacturer.

SENSOR WIRING TABLE

Sensor Model	Manufacturer Cable Colors		Kintech Cable Colors		Orbit 360			EOL Zenith	
					Section	Terminal	Type	Section	Terminal
	●	Black	●	Brown	Analog Channels	47 51 55 59 64 68 72 76 80 87	(-)	Analog Inputs	− −
	○	White	○	White	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
								Extra Analog	1 2 3 4 5 6 7 8
	●	Red	●	Green	Power Input	50 54 58 62	5п	Analog Inputs	+ +
	Shield		●	Yellow Green	Power Input	⏚		BAT	⏚

Note: *5п, + + = *Pulsating 5V with current limited (4mA). Only 1 sensor must be powered.*

REQUIRED DATA LOGGER VERSION

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

Minimum **firmware** required: **2.40**. If your data logger has an older firmware version (<2.40), please configure the sensor as a generic sensor (voltage) in both Atlas software and the data logger. Remember to fill in both the slope and the offset for the temperature sensor.

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: Temperature
- Sensor Model: **NRG 110S**

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 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	< 2.40	Temperature	01	milliVolts
	≥ 2.40	Temperature	04	TEMP NRG 110S
EOL ZENITH	any	Temperature	01	miliVolts

Keep in mind: *if the sensor channel has been configured as milliVolts, the output values on data logger display will always be shown in milliVolts. Remember to fill in both the slope and the offset for the temperature asensor to see real sensor values in ºC in your data-sets during a real-time connection with the data logger (from either Atlas or Atlas Mobile).*

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: Voltmeter
- Sensor Model: **Generic Voltimeter**
- Slope: 55.555
- Offset: -86.39

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

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