MOÏZ
Powering Autonomy

HARVESTREE TRIAL KIT

NO INSTALLATION FEE

Our autonomous sensors can be easily mounted on hot or cold surfaces. The thermal losses from these surfaces power the sensors.

With MOÏZ, you no longer need kilometers of cables and overloaded cable trays!

NO MAINTENANCE

Our sensors are self-powered through a thermal energy harvesting solution and contain no batteries or wires. They are designed to operate maintenance-free throughout their lifetime.

SUSTAINABLE APPROACH

To power Industrial IoT, why extracting Lithium, manufacturing batteries, collecting & processing them after use while energy is available on site for free (33% of industrial process energy is wasted as heat) ?

MADE IN FRANCE

MOÏZ SAS
25 Avenue des Martyrs
c/o Institut Neel Bat E - BP166
38042 Grenoble Cedex 9
FRANCE
www.moiz-eh.com
contact@moiz-eh.com

OVERVIEW

The Harvestree Trial Kit is a comprehensive solution that enables you to quickly and easily test the suitability of the Harvestree product for your specific use case. The kit includes everything needed to get started, including the Harvestree products, a dashboard for data visualization, connectivity options, and other necessary components.

With the Harvestree Trial Kit, there is no need for development or customization, as the kit provides a plug-and-play experience that allows customers to immediately begin evaluating the product's performance. The kit is designed for short-term use (typically 2 months), giving customers the time to assess the product's capabilities and confirm it meets their needs.

Whether you're looking to improve energy efficiency, reduce maintenance costs, or enhance operational efficiency, the Harvestree Trial Kit is the perfect way to see firsthand how the Harvestree product can benefit your organization.

CONTENT OF THE TRIAL KIT

The kit includes the following elements:

One or more Harvestree devices equipped with sensors relevant to your use case (such as temperature monitoring, vibration monitoring, digital input, etc.) chosen from our existing catalogue (see on the back) or provided by you.

The connectivity solution based either on a local gateway (provided) or on the use of a national LoRaWan operator such as Orange in France, Swisscom in Switzerland, Proximus in Belgium, etc. (all connectivity cost included).

A SaaS access to a comprehensive data visualization dashboard.

If you want to use your existing LoRaWan infrastructure and data storage & visualization solution, we will provide you a JavaScript codec for decoding the LoRaWan frames and support you in integrating this codec into your system.

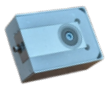
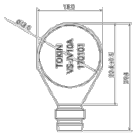
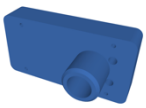
Our offer always includes on-site assistance from the MOIZ team for the proper setup of the trial kit. This ensures that you can start using the kit effectively and efficiently.

EXTERNAL SENSORS

Harvestree fitted with a vibration sensor and an external Pt1000 probe

In addition to the Pt1000 sensor embedded within the aluminum base (B class with +/- 1°C accuracy), the Harvestree node can interface with up to 4 sensors.

For this trial stage, The Harvestree node will be delivered with one or more sensors of your choice from the list below.

Trial use case	External sensors provided
Surface temperature of industrial pipes	**Contact Pt1000 probe with fastening strap**  
Temperature of flat surfaces of machinery, industrial process tanks, transformers busbars,...	**Contact Thermocouple or Pt1000 probe**  Ring lug probe to be screwed  Magnetic probe 
Rotating machine vibration monitoring	**Vibration sensor**   **Kemet VS-JV10A**
Non-contact measure of ultra-high temperature of surfaces (like molten metal)	**Infrared temperature sensor**  Infrared Sensor - MLX90614 3V integrated within a custom casing (-70°C to +380°C for object temperature with a accuracy of 0.5°C) 

Specifications	
Temperature Range	-25/+85°C
Power Supply Voltage	3.2 - 5.5 VDC
Protection	IP67 and oil-resistant
Sensitivity	10 mV/m/s²
Frequency Range	10 - 15,000 Hz
Measuring Range	+/-100 m/s²

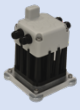
If the sensors listed below don't meet your needs, don't worry: If you have another sensor in mind, you can check its compatibility using the datasheet. If not, don't worry either: as the Harvestree is compatible with a wide range of sensors, we will support you in finding the best one for your use case.

TRIAL KIT REFERENCES

All kit include

- The loan of all equipment precised in the table below for a period of 2 months
- MOÏZ technical team on-site support for installation and proper startup of the kit
- A technical hotline for the trial duration

The table below lists all available references

Kit reference	NODES	NETWORK CONNECTIVITY		
	Standard Harvestree (with sensors) 	1 Local Gateway loan with SaaS custom dashboard 	LoRaWan nationwide operator subscription for each node with SaaS custom dashboard 	Provision of Harvestree JavaScript Codecs with technical assistance for integration 
HTK_1HG	1	●		
HTK_1HN	1		●	
HTK_1HC	1			●
HTK_3HG	3	●		
HTK_3HN	3		●	
HTK_3HC	3			●