



HOPS DRYING MARKET READY KIT



Measure all aspects of the HOPS drying process to optimize settings on airflow, heat and other KPIs, reduce energy consumption.

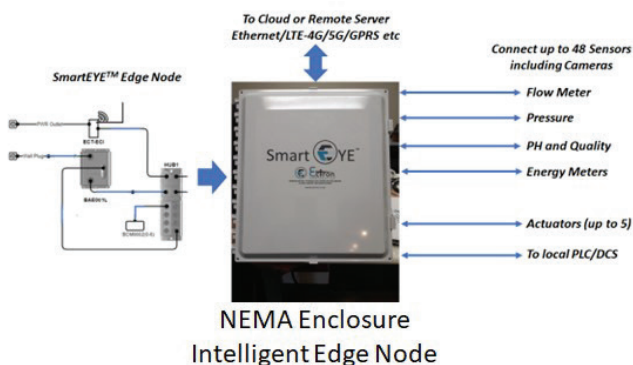
- ✓ HOPS drying bed temperature, humidity
- ✓ CFM, Temperature of air from fan duct
- ✓ Blower VFD Drive Energy Usage
- ✓ Natural Gas consumed in heater/kiln
- ✓ Environmental data incl. outside temperature, humidity

Use the data to get real time analytics by the type of HOPS:

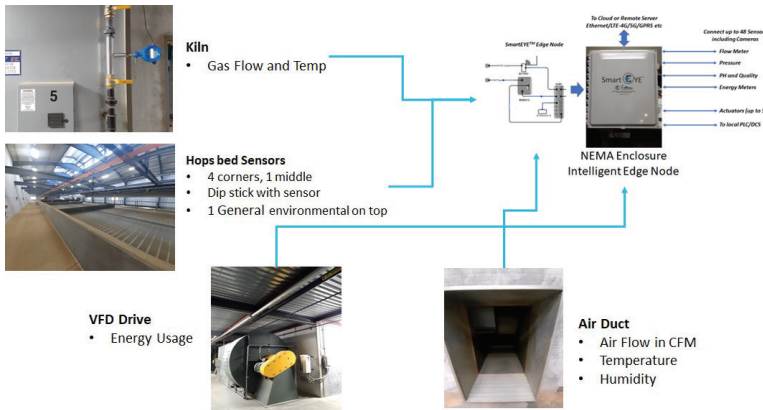
- ✓ What should be the duration of drying and setting by strain of HOPS?
- ✓ How do environmental factors affect the drying process?
- ✓ How much energy is used and the cost (Power + Gas)?

Ectron's Market Ready Kit is easy to deploy. Start measuring data and get analytics to optimize production and save costs. Make your operation more efficient and product quality more consistent.

The entire kit is built around Ectron's AI/ML capable Intelligent Edge Node that aggregates the sensors and performs edge analytics.



Ready to use no-code out-of-the-box Intelligent Edge Node and sensors. Installation assistance is available.



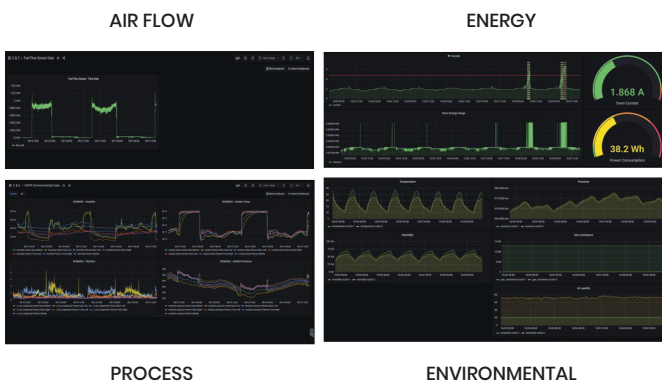
Standard configuration of the Market Ready Kit is:

- ✓ 1 Intelligent Edge Node (for 3 beds)
- ✓ 15 HOPS bed sensors
- ✓ 3 environmental sensors
- ✓ VFD Drive Power usage sensors
- ✓ Air Duct sensor for temperature, humidity and CFM air flow
- ✓ Computer tablet for operator data entry

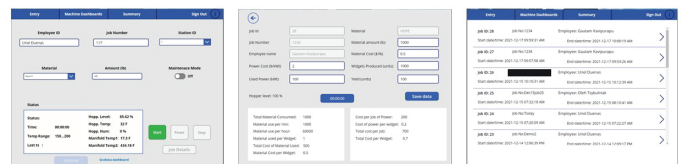
Add-On (Optional)

- ✓ Gas Flow meter with gas usage

MULTIPLE VARIABLES AVAILABLE FOR EDGE AND CLOUD ANALYTICS



Operator Entry (Tablet Computer)



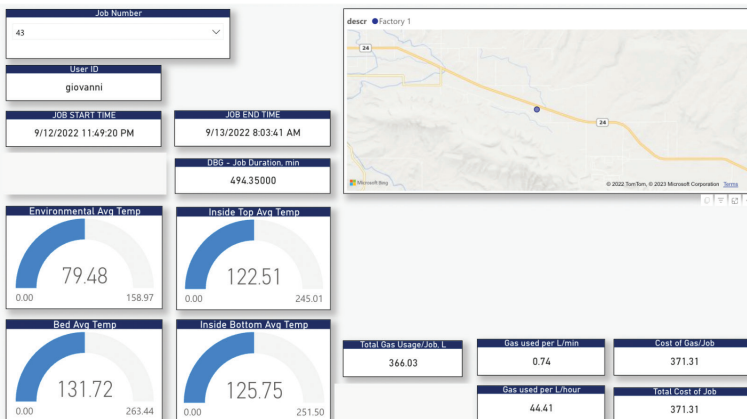
Operator Enters ID, Job #, Material used, Station ID Amount of Material used, Starts Job

Operator can put in more data after job starts such as material cost, power etc.

From summary tab one can view all the jobs run on the station



MANAGEMENT LEVEL DASHBOARDS WITH GEO-LOCATION DATA AND PRODUCTION SUMMARY



The HOPS DRYING Market Ready Kit is offered by Ectron and its partners Balluff and Intel for the HOPS Growing Industry.