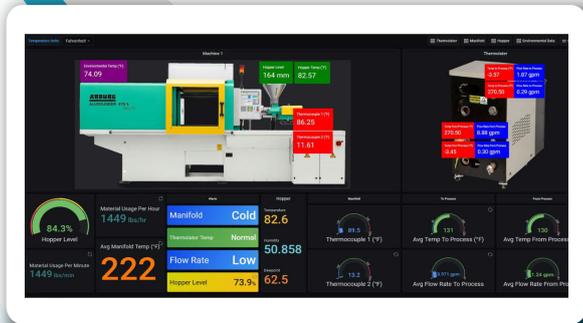# INJECTION MOLDING
MARKET READY KIT

Smart EYE™

Measure all aspects of your Injection Molding Machine to optimize settings, track production profile deviations in real-time, compare machine performance, reduce energy consumption and implement preventative maintenance.
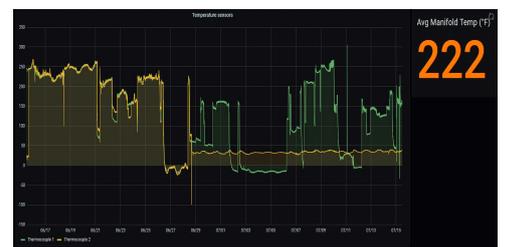
- ☑ Job Duration
- ☑ Material Used
- ☑ Material Dew Point
- ☑ Material Flow Rate
- ☑ Material Level in Hopper
- ☑ Thermolater Flow Rate
- ☑ Average Manifold Temperature
- ☑ Fluid Temperature (to/from Manifold)
- ☑ Average Hopper Temperature, Humidity
- ☑ Set-Up, Hold, Cool Down Times
- ☑ Amount of Material Per Job, Hour, Minute
- ☑ Number of Units Yielded Per Job
- ☑ Cost Per Unit (Material and Energy)

Use the data to :

- ☑ Adjust machine settings in real-time to keep desired manifold and hopper temperature maintained.
- ☑ Compare output and product quality based on material used from machine to machine.
- ☑ Pinpoint equipment deviations for predictive maintenance and repairs.
- ☑ Monitor usage for production scheduling and energy efficiency.
- ☑ Forecast and track per run production cost (including energy cost).
- ☑ Run simulations to see what changes in the process yield efficiencies.

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
- ☑ Hopper Temperature, Humidity Sensor
- ☑ Hopper Material Level Sensor
- ☑ Manifold Thermocouple Data Converter
- ☑ Environmental Sensor for External Data
- ☑ 8 flow meters for thermolators
  (temp and flow data to/from manifold)
- ☑ Power Consumption Sensor
- ☑ Computer tablet for operator data entry

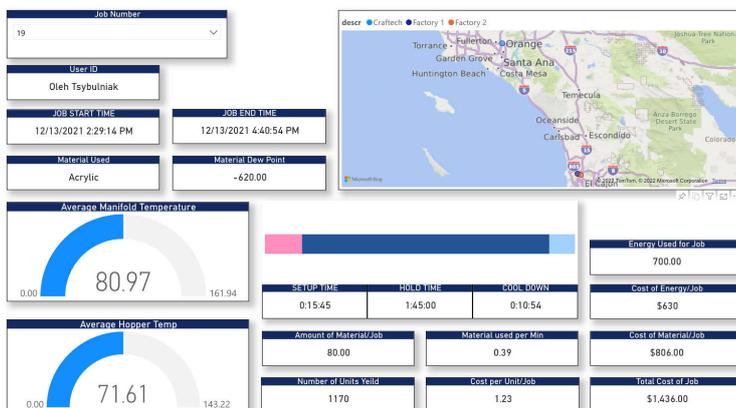## MULTIPLE VARIABLES AVAILABLE FOR EDGE AND CLOUD ANALYTICS

HOPPER LEVEL, TEMPERATURE, HUMIDITY, DEW POINT

MANIFOLD TEMPERATURE

USER INTERFACE DASHBOARD FOR DATA ENTRY

MANAGEMENT LEVEL DASHBOARDS WITH GEO-LOCATION DATA AND PRODUCTION SUMMARY

The INJECTION MOLDING MACHINE Market Ready Kit is offered by Ectron and its partners Balluff and Intel for the Injection Molding Industry.

https://www.ectron.com/