

Modius® OpenData® for Manufacturing and Industrial Operations

Manufacturing plants and industrial operations must continuously improve operational performance to remain competitive in this global economy. Unfortunately, the high diversity of systems and manufacturing equipment, along with a significant amount of non-networked legacy equipment has made it very difficult for factory operators to continue to achieve desired levels of operational excellence.

OpenData software from Modius is a fully distributed data collection solution for creating real-time performance metrics from data gathered from the equipment essential to any production environment. The Big Data generated by your factory equipment is only useful if it can be easily visualized to provide the information needed to make informed, data-driven decisions at the operational, tactical and strategic levels. This is where gaining Real-time Operational Intelligence (RtOI) becomes critical to achieving higher standards of excellence.



Real-time Operational Intelligence (RtOI)

Real-time Operational Intelligence for your factory provides production managers with the ability to recognize opportunities to mitigate risk, improve efficiency, and optimize capacity. Basing decisions on theoretical models or stale data is a risky proposition at best. OpenData provides RtOI where data is refreshed in seconds, not daily, thereby allowing production managers to take proactive action as problems arise and make smarter decisions for resolving these issues.

When it comes to making the right decisions for your business, sometimes speed is everything. Companies that use an RtOI solution are more likely than those without RtOI, to receive the pertinent information they need to avoid unscheduled downtime. OpenData helps production managers improve decision making and keep things running, while identifying ways to optimize throughput and capacity.



Where do I Start?

1 Collect

Collecting unstructured measurements from all factory creates a unique set of issues:

How do I collect data from all the different devices and applications in my factory?

How do I account for all the inconsistencies and ambiguities in this unstructured data?

OpenData collects data from any and all devices. It supports multiple protocols and is agnostic to all makes and models, networked and non-networked. OpenData automatically translates and normalizes that data from across your factories into structured metrics that are easily formatted for presentation in reports, charts, graphs and dashboards.

2 Analyze

Once you've solved the data collection issue, it's time to analyze where you are and set operational goals for the future. OpenData provides a large library of configurable "out of the box" reports covering important issues related to quality, productivity and costs. It also allows the factory operator to create custom metrics and combine data to quickly develop new insights into the operational conditions on the factory floor. These metrics can lead to preventative maintenance, result in significant cost savings, and even avoid downtime. This is Real-time Operational Intelligence.

3 Act

Sound management decisions rely on Real-time Operational Intelligence. OpenData provides all the tools you need to manage the performance of your manufacturing facilities, from integration of disparate devices, to analytics, to customizable and integrated dashboards, all in a "single pane of glass". Analytics can easily capture data from any device, application, or process and provide the RtOI needed to quickly make the right decisions for your factory and your business.

Key Features & Benefits

- Collect measurements from all devices, applications & processes so there's no need to rip and replace your current system
- High speed, industrial strength, multi-threaded polling engine for real-time data to make accurate, real-time decisions
- Easily developed custom metrics, dashboards and reports from an extensive template library to generate the real-time analytics
- Real-time Operational Intelligence required to achieve operational excellence