INTERSTACKS

Get real-time intelligence on all your sensors & machines.

Maximize uptime - Minimize costs. Know what your machines are doing every minute of every day. Interstacks is the easiest to use, complete industrial internet of things solution. No software or IoT expertise needed. No disruptions to current operations.

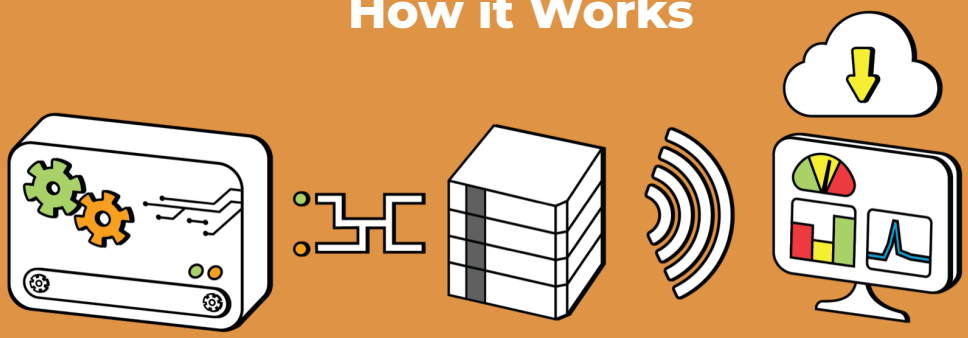
With our stacks, you'll be able to:

Increase productivity by monitoring up/down time, counting parts, viewing OEE, and tracking quality.

Reduce maintenance costs by analyzing actual usage and getting real-time sensor alerts.

Add remote monitoring to OEM industrial equipment in minutes. Reduce support costs and increase customer engagement.

How it Works



Machine/Sensors **Stack** **MyStacks Dashboard**

Connect Your Machines And Sensors To A Stack

- Stack as few or as many snap-together blocks as you need
- Send real-time, timestamped data to the MyStacks cloud platform over ethernet, wifi, or cell data.
- Hardware blocks for many connectivity needs

View Data From Any Browser On Any Device

- All data is timestamped, encrypted, and saved
- Easily build custom dashboards for any need
- See analytics for up/down time, part counts, machine cycles, all types of sensors, and any other metrics you need.
- Get real-time text/email alerts

Wake Your World

With Our Hardware Blocks & MyStacks Dashboards

Snap-together Hardware Blocks

Stacks are the modular electronics that capture data from your sensors and machines

Computing	Superbase (for application software). All stacks use a Base. Then snap on I/O and network communication.
I/O	Analog In Universal (5V, 10V, 4-20mA), Digital In, I/O Expander, pH/ORP, Serial
Communication:	Wifi, Ethernet, Cell Data, RS-485, RS-232, Bluetooth
User Interface:	USB Keyboard, Barcode, Infrared remote, Audio
Software Protocols:	Encrypted data is sent using web standard REST APIs or MODBUS-TCP. Various serial data protocols supported and can be custom developed

MyStacks IoT Cloud Platform

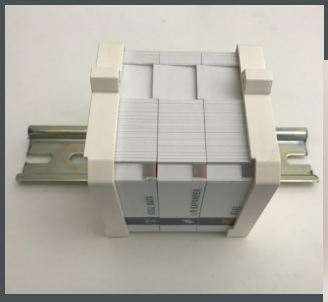
View machine and sensor data on the customizable MyStacks IoT cloud platform from a web browser on any device. Or send to on-prem or other cloud servers.

- Receive text/email alerts based on conditions you set.
- All historical data is saved for real-time viewing plus reporting by hour, shift, day, week, month.
- Arrange dashboard widgets any way you prefer.
- Use line charts, single values, gauges, state history, state table, counts bar charts, alert history, OEE, multi-tag reports with user defined shift times, and many more.
- All data encrypted in transit and at rest in database. Supports MFA and SSO logins.

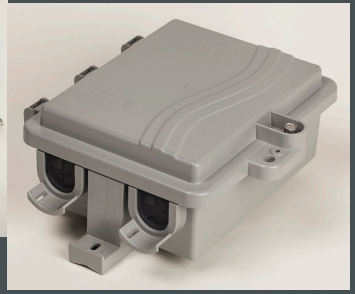
Fully Programmable

Stacks are fully programmable and your support engineer will pre-program them for your custom application at no cost. The superbase block uses the Python programming language and applications are built using our Stackbuilder development tool. The drag and drop interface lets you quickly add local smarts and program in Python if desired.

Weatherproof Enclosure & DIN rail mounting available



DIN Rail Mount



Weatherproof Enclosure

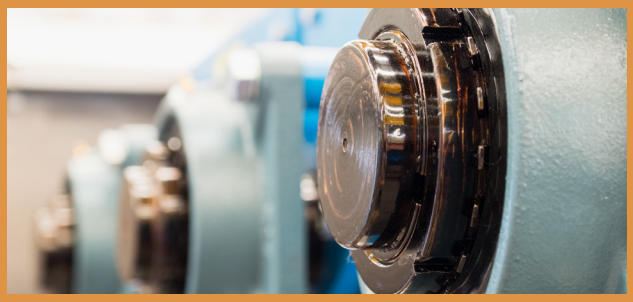
Digital Transformation with Impact

CNC Shop

A CNC shop connects “job done” and “job alarm” digital outputs to a stack. A text message is sent if the outputs are triggered, thus enabling “lights out” overnight runs.

Utility Cable Manufacturer

A large manufacturer of electric utility cable uses a proximity sensor to count revolutions of cable making machines’ take-up reels. A wifi connection to the internet enables a real-time view of all of the factory’s machines via the MyStacks IoT cloud platform.



Sensor OEM

The leading manufacturer of bearing reliability sensors uses Interstacks private label hardware and MyStacks IoT cloud to deliver a complete bearing lubrication solution to their global 2000 customers. When bearing wear is detected, a signal is automatically sent to a lubrication canister mounted on the equipment to dispense grease.

Optics Manufacturer

A manufacturer of high-end laboratory equipment uses a power consumption sensor to monitor lens polishing machines up/down time resulting in increasing productivity. An analog-in block connects to the power sensor and a Wifi block is used to send the data to the MyStacks IoT platform.

Battery Manufacturer

A manufacturer of batteries uses Interstacks to get information from scales and micrometers to monitor manufacturing quality in real-time. A RS-232 block interfaces with the equipment and ethernet is used to connect to the factory network.

Water Treatment OEM

A maker of water treatment equipment uses an Interstacks stack with a RS-485 block and cellular data connection to get data from the PLC inside the equipment and send it over the cell network to the MyStacks IoT cloud platform. Maintenance runs can then be optimized.