Overview
The Element-A (Model EA2) is a wireless, battery-powered Internet of Things (IoT) smart sensor that continuously collects environmental temperature, humidity, pressure, and light data. The Element-A device is one product within our LabOps monitoring solution helping protect your critical lab areas, instruments, and other assets from risk. After measuring environmental data, the device securely transmits this data to the EM Insights Dashboard offering users interactive real-time monitoring transforming the data into insights with meaningful alerts via state-of-the-art data science.

Performance Highlights
- Four sensors in one small package
- Wireless, battery-operated device that reduces the number of wires in crowded spaces
- An alarm triggers smart alerts notifying the right people
- Expandable platform can easily add more devices with cellular backup
- Installation takes less than one minute
- Mounts magnetically with no mounting screws

Device Readout

<table>
<thead>
<tr>
<th>Temperature</th>
<th>°F / °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>%</td>
</tr>
<tr>
<td>Pressure</td>
<td>hPa</td>
</tr>
<tr>
<td>Visible Light</td>
<td>semi-quantitative</td>
</tr>
</tbody>
</table>

Many Applications

<table>
<thead>
<tr>
<th>Laboratories</th>
<th>Food Service</th>
<th>Incubators</th>
<th>Manufacturing</th>
<th>Environments sensitive to fluctuations in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vivariums</td>
<td>Biofuels</td>
<td>Greenhouses</td>
<td></td>
<td>Temperature, Humidity, Pressure, and Light</td>
</tr>
</tbody>
</table>

Communication

**WIRELESS COMMUNICATION:**
Data transmission via low energy 2.4 GHz requires the Elemental Gateway connected to a WiFi/Ethernet network

**WIRELESS RANGE:**
Up to 30 meters

**DATA SAMPLING & TRANSMISSION RATE:**
15 seconds

**SECURITY:**
Google Cloud Platform’s (GCP) SOC2 compliant services keeps data safe

**CONNECTIVITY:**
Application Programming Interface (API) sends data to 3rd party software platforms

Actionable Insights

Smart Alerts send automated messages to pre-defined users with escalation (SMS, phone call, and/or email)
Installation

The Element-A mounts magnetically to lab equipment or to a wall in the environment it is monitoring. The device contains strong magnets that hold it firmly in place. If attaching to a non-ferrous surface, you can request an Elemental Metal Mounting Plate. There are no tools, mounting holes, or screws necessary.

Secure Environmental Data Viewed in real-time and over any data range on the EM Insights Dashboard available anytime & anywhere, even on your mobile device.