

Anode

An End-to-end Asset Anomaly
Detection Solution



Anode

Anode is an **end-to-end IoT solution** powered by Microsoft Azure components that makes it easy for customers to **rapidly enable detection of anomalous asset behavior**. Installation of Anode involves installing sensors that measure metrics of interest, such as temperature, pressure, flow, or vibration, and connecting these sensors to the cloud through an Edge gateway.

Once installed, **Anode sensors start sending telemetry to the gateway** that is running Azure IoT Edge. This telemetry then gets **relayed to the cloud** for further processing, as well as **fed to the on-site Edge instance of Azure Anomaly Detector**. Anode **“learns”** what the normal operating thresholds for specific metrics are and **determines if incoming readings can be considered anomalous**. If it detects an **anomaly, it follows rules** that are set up by the customers for alerting (e.g. notify maintenance staff).

Anode is an **end-to-end solution**; it comes **ready with (optional) sensors, gateway, cloud services, and necessary dashboards**. A one-time installation of these sensors and other hardware may usually be performed by people/partners of Codit or the sensor manufacturer. Codit also offers a variety of optional, pre-built modules, to help customers integrate this solution further. These modules can be leveraged by the customers to connect to their existing assets or systems and enhance anomaly detection workflows.

Note: this is an end-to-end solution that includes hardware and software components. It can be deployed using existing sensors or, if the customer does not have existing sensors, Codit can provide a list of supported sensors.

Anode is simple to deploy, will deliver immediate results, and requires no complicated model development.

- It supports a wide variety of IO-Link sensors, thus supporting a variety of anomaly detection use cases.
- Anode can be optionally extended to connect to other sensors, systems, and processes to enhance anomaly detection and asset management workflows.
- Finally, Anode is offered at a predictably, low monthly cost – allowing customers to get to tangible business value in a matter of days or weeks..

Request your demo and find more information on our website
<https://www.codit.eu/en/accelerators/anode/>