

# RealityCheck™ AD

Detect Anomalies, Monitor Equipment, Test Products



## AI-DRIVEN MACHINE-LEVEL ANALYTICS FOR THE FACTORY

RealityCheck™ AD is a ready-to-implement anomaly detection solution for monitoring factory and process-industry assets. It is a complete hardware and software solution for equipment monitoring and end-of-line testing for quality control. Users can deploy an edge node with one or more included sensors and immediately begin monitoring production equipment for unusual or anomalous functions. Just attach a Renesas edge node plus sensor and automatically generate a baseline anomaly detection model. Over time, build your anomaly database and train additional models for detecting or predicting specific faults or for predicting the remaining useful life of components. We offer a range of sensor options, including ones certified for corrosive or explosive environments.

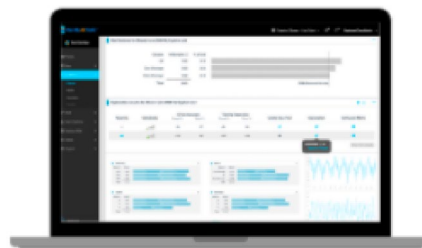
### Self-learning Edge Nodes

Renesas-based edge node and hardware



### Reality AI Tools® Software

Award-winning software for automatic ML model generation for anomaly detection, signal classification, and remaining-useful-life prediction



### Selection of Sensors

Selection of accelerometers and mics for different use cases. Explosion-proof options available, if needed



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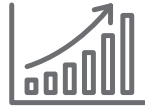
## Key Features

- Edge node learns automatically and begins detecting anomalies
- Baseline and anomalous data can be further analyzed by Reality AI Tools
- Generates results within hours, improve over time, and add detectors for specific conditions or remaining-useful life of components
- Interfaces for factory dashboard and workflow systems

## Benefits



**Reduce costs**  
associated with  
unnecessary downtime



**Improve quality**  
with automated  
end-of-line testing



**AI Engineering workstation**  
for understanding models  
in time/frequency domains

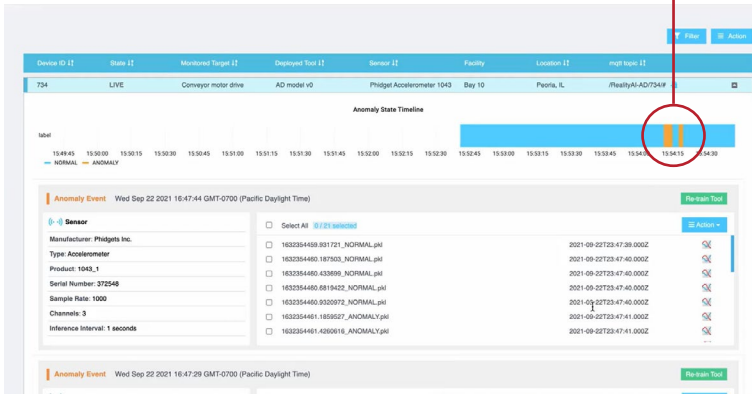


**Full turnkey solution**  
from sensor and edge node via  
AI modeling and dashboarding

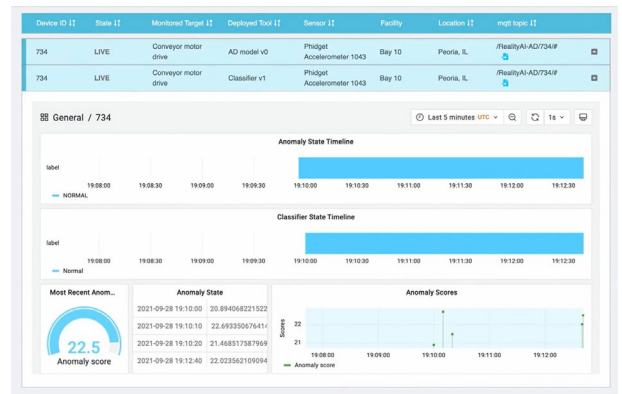
## RealityCheck™ AD Demo Example

### Monitor Activity and Review Anomalies

Anomalies are detected



### Activity Monitoring



For more info visit: [renesas.com/realityai](https://renesas.com/realityai)



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