KAIROS®

Control Room Assistant

Key Features

- Immediate detection of the root cause
- Consequence propagation of the abnormal situation
- Counteraction – fastest and safest return to normal situation
- Explainable AI Digital twin
- Use design knowledge
- Combine with operational experience
- Timeline scrubber for analysis support
- Desktop and/or large-screen display
- Cloud or on-premises installation.
- Process upset detection
- Suppress equipment out of service
- Stream process data from DCS, no additional sensors needed.
- Model built in a few months from process library models.

Benefits

Improved performance

Complex plants will have losses due to unplanned incidents. Situational awareness through root cause and consequence propagation enables operators to give accelerated and more targeted response avoiding losses.

Increased safety

Less upsets = Less risk. Prevent the worst accidents from occurring by having a better overview of the process system. Failure modes are recognized and clear counteractions from operational procedures displayed.

Increased insight

See the early stages of an upset. Alarms alone represents the symptoms, while with instant real-time analysis of incidents where the pattern of all sensors contribute to the analysis helps the operator to interact early and avoid upsets developing from incidents.

Reduced emissions

Be aware of the small and important abnormalities that may lead to a high-risk situations to prevent them from occurring. Once the production is within safe operation, the reasoning supports awareness for optimized energy consumption and reduced emissions.

Share knowledge

The design knowledge is combined with knowledge from operation in the model. This ensures that lessons learnt are distributed within a plant and may also be shared company wide. Available instantly as the situation develops.

Explainable AI

The reasoning is based on explainable Artificial Intelligence. The system adds value from the day it is deployed, built-in domain knowledge. No need for data scientists. Refinement of digital twin is included in the SaaS (Software as a service) delivery model.