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Process Stability Calculation App

DESCRIPTION

The Process Stability Calculation App enables machine operators to monitor process stability in real time. The user can configure any number of observables to be supervised. The algorithm is based on different statistical measures and able to automatically adjust itself, e.g., to changed set values. The computed stability data can be subsequently used by other applications.

KEY BENEFITS

- Reduce cost of human process supervision by automatic stability monitoring for diverse process types.
- Easily detect sources of instability.
- Minimise operator reaction time in the event a process becomes unstable.
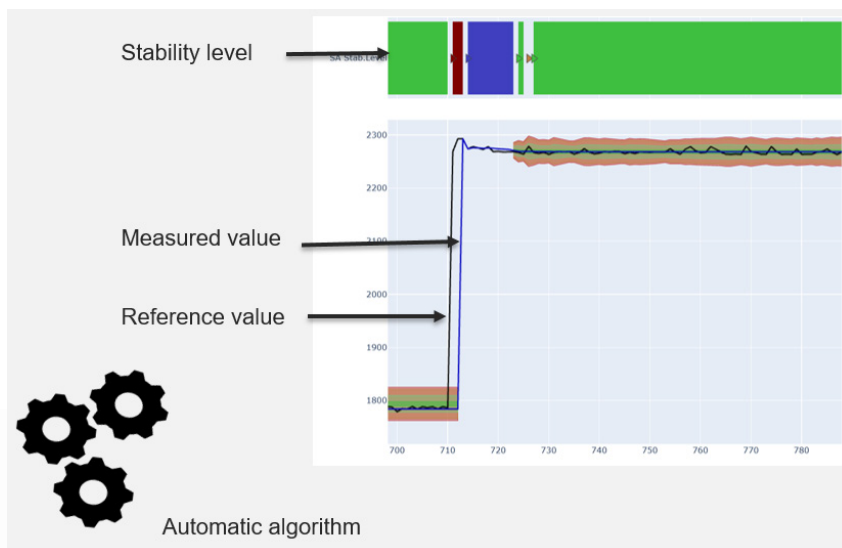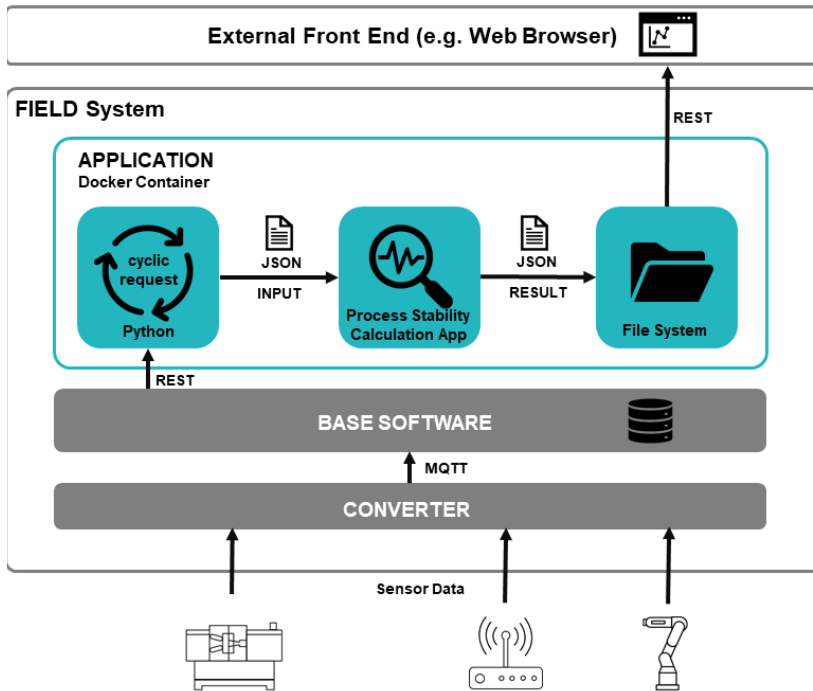
KEY FEATURES

- Live process stability monitoring.
- Automatic adjustment to different observable types and measurements.
- Automatic adaption to intended changes of set values.
- Expert users are free to tweak algorithm parameters to meet specific demands.
- Can be used as a building block for other applications.

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APP PREVIEW

External Front End (e.g. Web Browser)

FIELD System

APPLICATION
Docker Container

cyclic request
Python

JSON INPUT

Process Stability Calculation App

JSON RESULT

File System

REST

REST

BASE SOFTWARE

MQTT

CONVERTER

Sensor Data

Stability level

Measured value

Reference value

Automatic algorithm

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FIELD system Partners

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