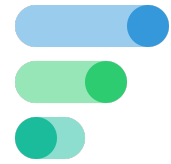


Factry

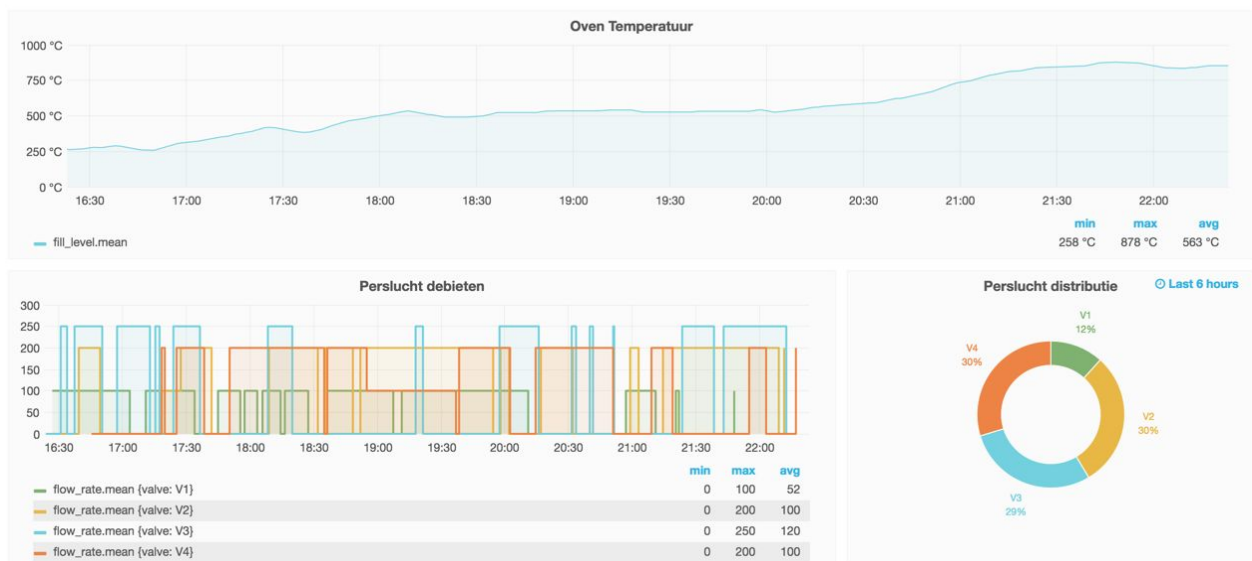
Historian Platform



Introduction

Operational excellence is driven by an optimal understanding of your production processes. However, getting to a level of insight that is sufficient for this understanding is one of the biggest challenges that production companies face today. Different machines - very old to brand new, from various vendors - generate data at high rates. Unfortunately, in many cases this data is not collected or, at best, collected locally without further context.

With the Factry Historian platform, you get insight out of the box. We collect data from different sources (PLC, SCADA, MES, ERP) and present it in the right context. Now, everyone in the company - from operator to plant manager - gets access to the real-time and historical values of thousands of metrics across your production facilities, allowing them to gain a maximal level of insight to drive your continuous improvements.



Key features

OPCUA communication

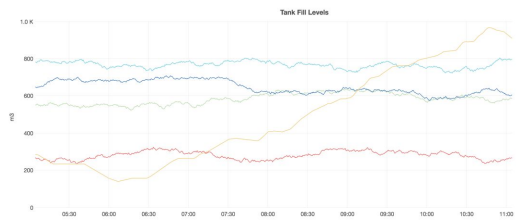
Data collection in the Factory Historian Platform is primarily done using the OPCUA protocol. OPC Unified Architecture is the successor of the highly successful OPC communication protocol, enabling data acquisition and information modeling and communication between the plant floor and the enterprise reliably and securely. Where the classic OPC protocol, based on Microsoft DCOM, brought a lot of complexity, OPCUA solved a lot of the issues: it is platform independent, future-ready and easily configurable. For these reasons, it is becoming the de facto standard for data exchange between industrial systems.



Best in class visualisation

With the platform, you also get access to a web-based trending and dashboarding solution.

For historical analysis of your data, this system allows you to create trends for any timespan for one or multiple metrics, using the raw data or a mathematical aggregate thereof. When you are satisfied with the resulting graph, you can share it with others in the company, save it to a dashboard or simply discard it if it was a one-time lookup.



The dashboarding abilities allow you to create real-time dashboards for use throughout your offices and factories. After designing the layout by combining different trends, gauges, KPI values, ... from different metrics, you simply set an auto-refresh interval to use it as a real-time monitoring solution. As there is no limit on the amount of users, you can display your data on as many screens as you want. Furthermore, the screens are responsive, meaning that you can access them from mobile devices.



Alerting

For those critical parameters in your facilities that require a quick intervention where they cross a certain threshold, the historian platform provides a user-friendly alerting system. It allows you to define thresholds for a metric and to specify an action when that threshold is exceeded, like showing a simple visual warning or sending an email to the person responsible. More advanced integration allow for custom actions like creating workorders in an ERP system by development of custom webhooks.



Effortless integration

Whether you want to build new applications on top of this historian platform, or connect it to your existing applications, the open API's allow for smooth integration. The SQL-like query language will feel very familiar if you are used to working with databases like MS SQL Server. It allows you to execute queries like this:

```
select mean(value)
  from tank1_level
 where time > now - 1day
group by time(5min)
```

These queries can be executed on the server by means of simple HTTP(S) requests. As you can execute HTTP requests from nearly every programming language and even shell scripts, there is no limit on the possibilities for integration.



About Factry

Factry brings the power of open software to the world of manufacturing intelligence. Our goal is to help our customers get insights in their industrial processes, by combining our knowledge on existing industrial systems with advanced technologies from the web- and IoT-space. Together with our transparent approach, this guarantees modern and performant solutions without artificial limits, providing you with maximal freedom, now and in the future.

Factry BVBA

Oktrooiplein 1
9000 Gent

BTW BE 0655.839.170

+32 476 80 63 37

info@factry.io

www.factry.io