TwinCoreX™

The Digital Twin Platform for Industrial Operations

Collect, monitor, and analyze industrial data end to end — from any sensor or PLC to live dashboards, reports, and connected systems.

Product Overview

PLATFORM OVERVIEW

One platform, from sensor to insight

TwinCoreX unifies the full industrial data journey in a single system. Connect equipment, log time-series data, build a live digital twin, and turn it into dashboards, reports, and outbound data streams — without stitching together separate tools.

01

Collect

Communication drivers, SQL data sources, and a scheduled datalog historian.

02

Monitor

A visual Twin Screen and real-time dashboards with gauges, alarms, and charts.

03

Analyze

Sankey flows, heatmaps, and on-demand reports with CSV, Excel & PDF export.

04

Publish

Push processed data to external systems and APIs on a defined interval.

THE CHALLENGE

Industrial data is hard to harness

Plants run on PLCs, sensors, and databases that rarely speak the same language. The result is fragmented visibility and slow decisions.

Siloed systems

Data lives in isolated PLCs, SCADA nodes, and SQL databases with no shared view across the plant.

Limited real-time visibility

Operators react to problems after the fact instead of monitoring live process conditions and alarms.

Manual, slow reporting

Exporting and compiling operational data by hand delays analysis and keeps insight locked in spreadsheets.

HOW IT WORKS

A connected pipeline from field to decision

Every module in TwinCoreX plugs into one continuous data flow.

Connect

Poll PLCs & sensors via MQTT, Modbus, Siemens S7 and Ethernet/IP.

Log

Store tags to SQL on a set interval with the datalog historian.

Model & Monitor

Map assets on the Twin Screen and watch them on live dashboards.

Analyze & Publish

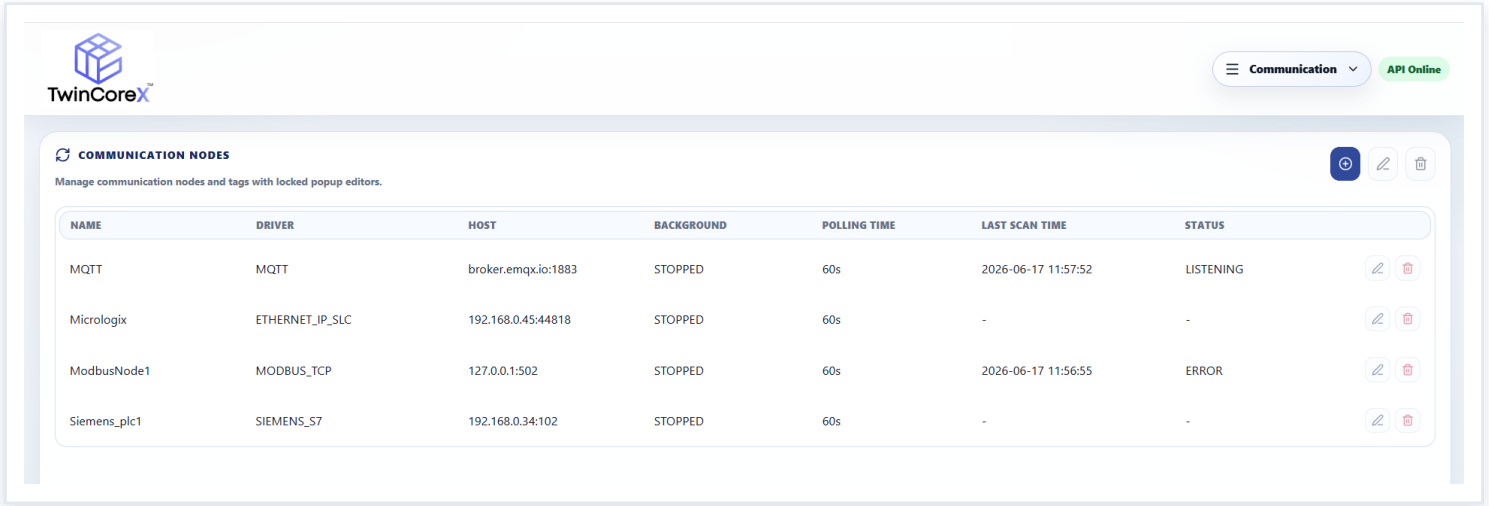
Run reports, explore analytics, and stream data onward via publishers.

COLLECT · COMMUNICATION

Connect to any device on the plant floor

TwinCoreX polls industrial equipment through pluggable communication drivers, so every controller and sensor becomes a live data source with configurable polling and status monitoring.

MQTT | MODBUS TCP | SIEMENS S7 | ETHERNET/IP | Configurable polling | Live status

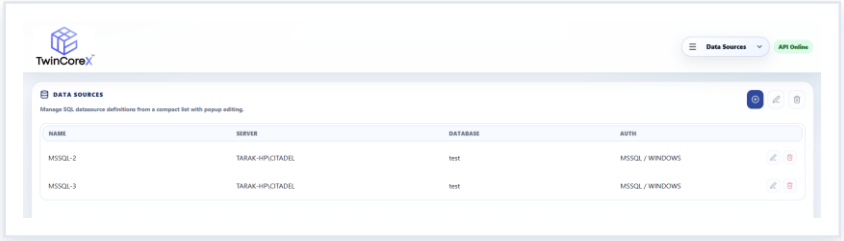


COLLECT · DATA & INTEGRATION

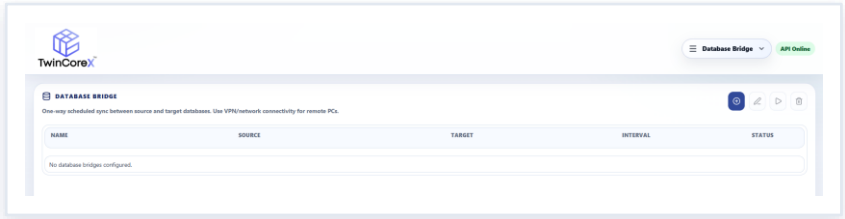
Bring in databases — and keep them in sync

Define SQL data sources once, then move data safely between sites. The Database Bridge runs one-way scheduled syncs between source and target databases over your VPN or network.

Data Sources



Database Bridge

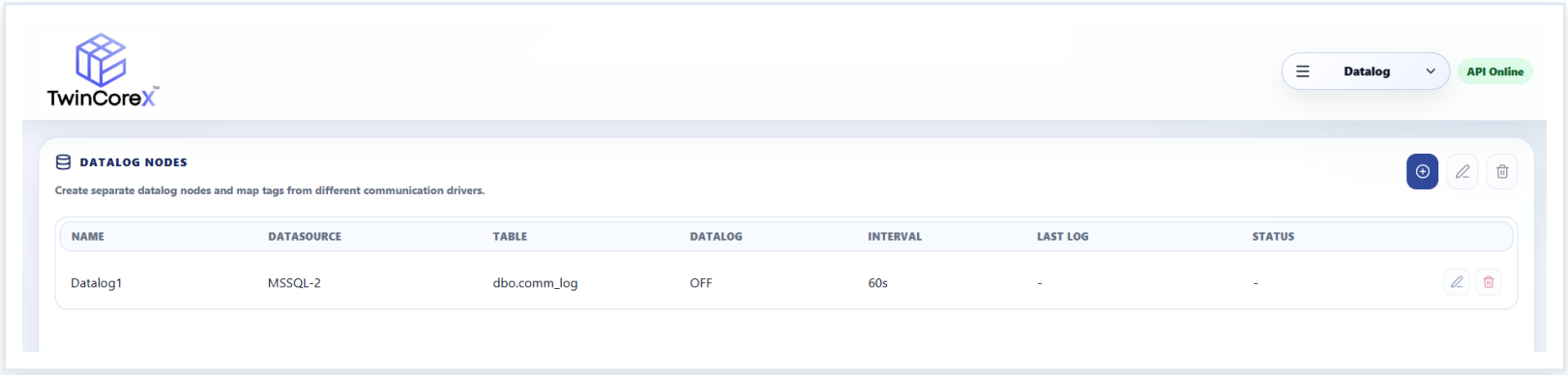


COLLECT · DATALOG

A time-series historian for every tag

Create dedicated datalog nodes and map tags from any communication driver. TwinCoreX writes them to your database on a defined interval — building the historical record that powers reports and analytics.

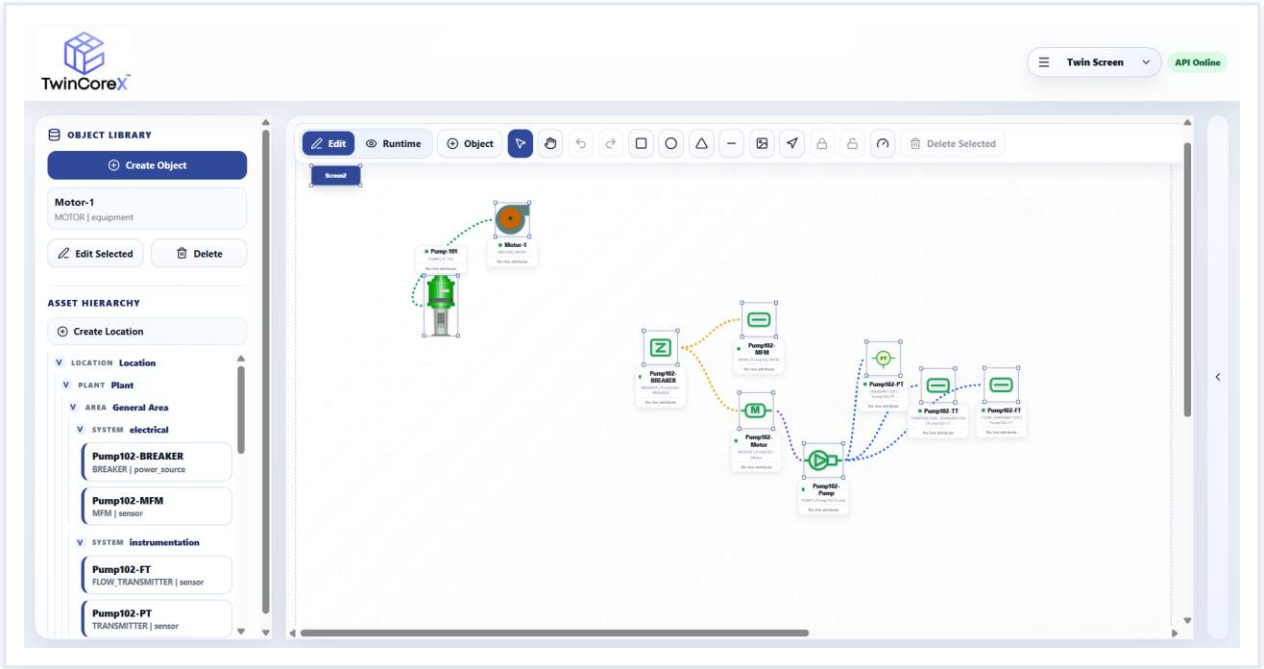
Tag mapping | Interval logging | SQL storage | Last-log status



MONITOR · TWIN SCREEN

Build a visual twin of your plant

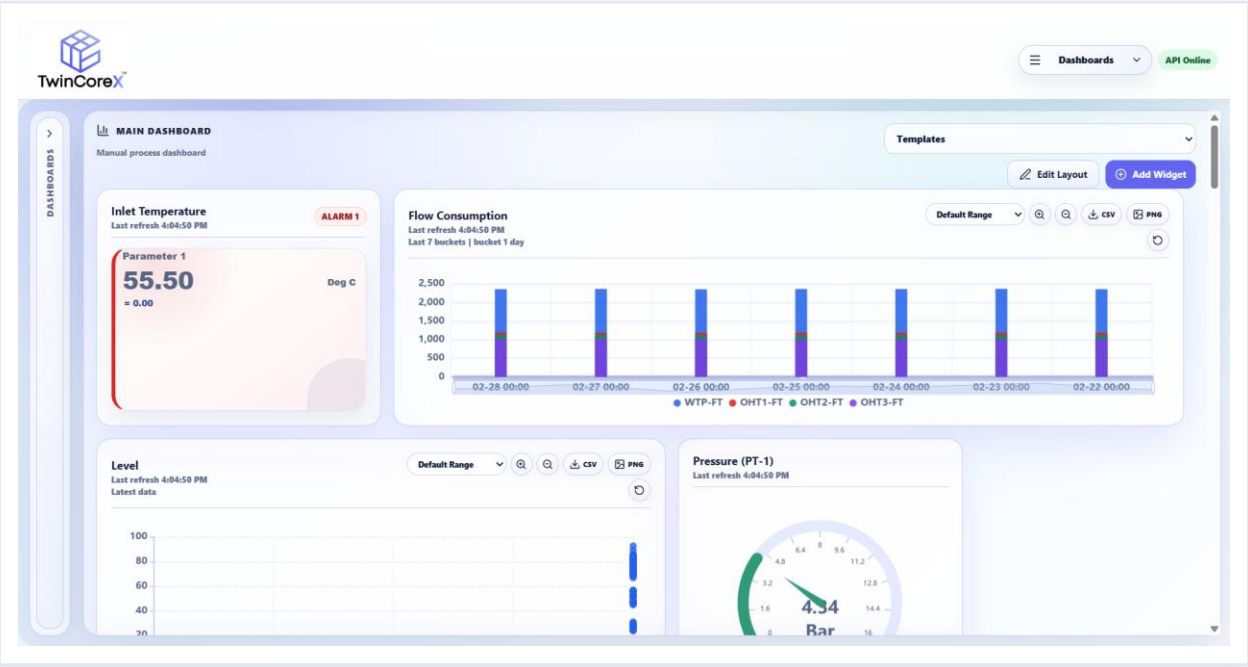
Model equipment on a drag-and-drop canvas, organise it in an asset hierarchy by location and system, and bind live tags to every object.



MONITOR · DASHBOARDS

Live dashboards with alarms

Compose gauges, trend charts, level indicators, alarm tiles and widgets — build from templates and monitor real-time conditions at a glance.

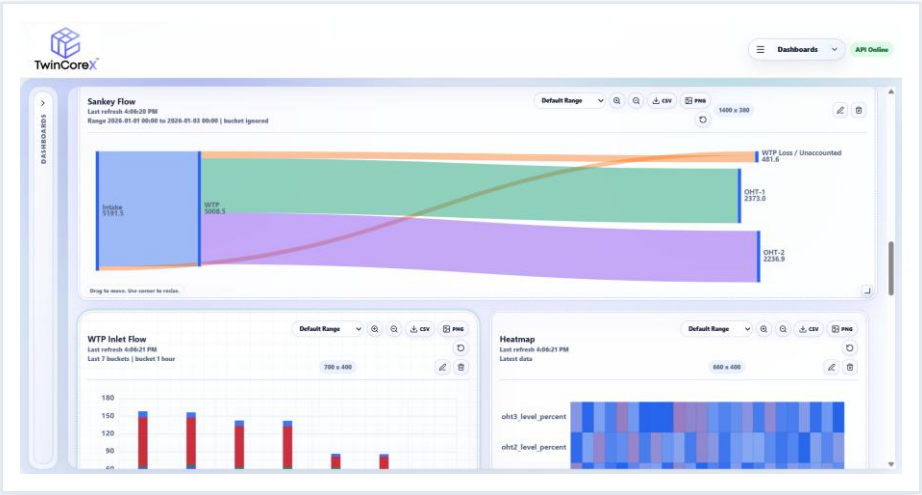


ANALYZE · ANALYTICS

See how your process really flows

Go beyond single values with advanced visualisations — Sankey diagrams for mass and flow balance, heatmaps for patterns over time, and comparative charts across tags.

Sankey flow | Heatmaps | Flow analysis | Multi-tag charts | Custom ranges



ANALYZE · REPORTING

Configure once, run reports on demand

Define once in the Report Builder, run for any date range, export in any format.

Report Builder

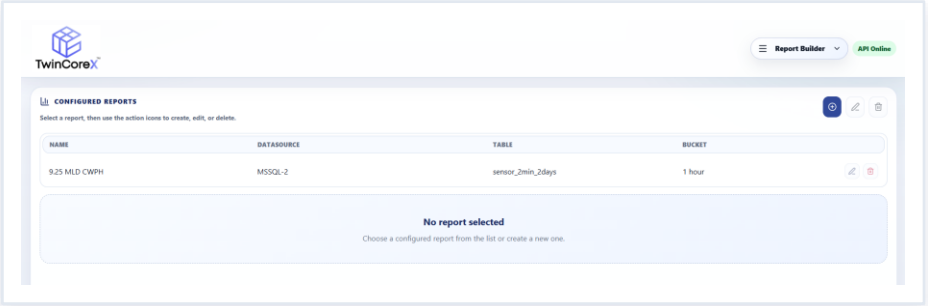
Define datasource, table & bucket for each report.

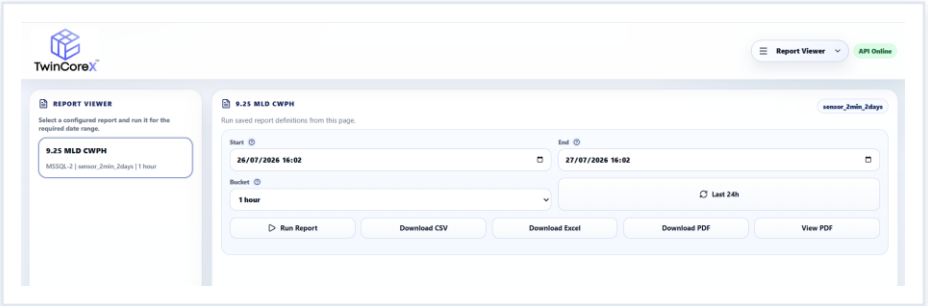
Report Viewer

Run any saved report for a chosen date range.

Export

Download results as CSV, Excel or PDF.





PUBLISH · PUBLISHERS

Stream data out to any system

Close the loop by pushing processed data onward. Publishers post to external endpoints and APIs on a defined interval, with parameters and delivery status tracked for every destination.

POST to API | Scheduled interval | Custom parameters | Status tracking

THE PLATFORM

Everything in one connected workspace

Twelve integrated modules span the full data lifecycle — grouped here by what they help you do.

COLLECT

- Communication
- Data Sources
- Database Bridge
- Datalog

MONITOR

- Twin Screen
- Dashboards
- PDF Templates

ANALYZE & PUBLISH

- Report Builder
- Report Viewer
- Publishers

WHERE IT FITS

Built for process-intensive industries

Any operation that runs on sensors, PLCs and SQL data can be modelled and monitored in TwinCoreX.

Water & Utilities

Monitor pumps, flow, levels and pressure across treatment and distribution networks.

Manufacturing

Track machine tags, throughput and alarms on a live plant-floor twin.

Energy & Power

Log time-series signals and analyse consumption and load patterns.

Oil, Gas & Chemicals

Balance mass and flow with Sankey analytics and scheduled reporting.

WHY TWINCOREX

One system instead of a toolchain

Unified platform

Collection, monitoring, analytics and publishing live together — no integration glue between tools.

Real-time by design

Poll, log and visualise on configurable intervals so decisions are based on current conditions.

Vendor-agnostic connectivity

Standard drivers reach MQTT, Modbus, Siemens and Ethernet/IP devices out of the box.

Own your data

Data lands in your SQL databases with backup, restore and one-way sync you control.

TwinCoreX™

Build your digital twin — from sensor to insight.

Collect · Monitor · Analyze · Publish

Request a demo