IntelliStream Analyzer Management System

IntelliStream is the **most user-friendly way** for plant operators to monitor, maintain, and report on industrial gas analyzers from a single, centralized interface

It tracks live measurements, helps operators understand system status, respond to alarms, and carry out routine operational and maintenance activities with confidence
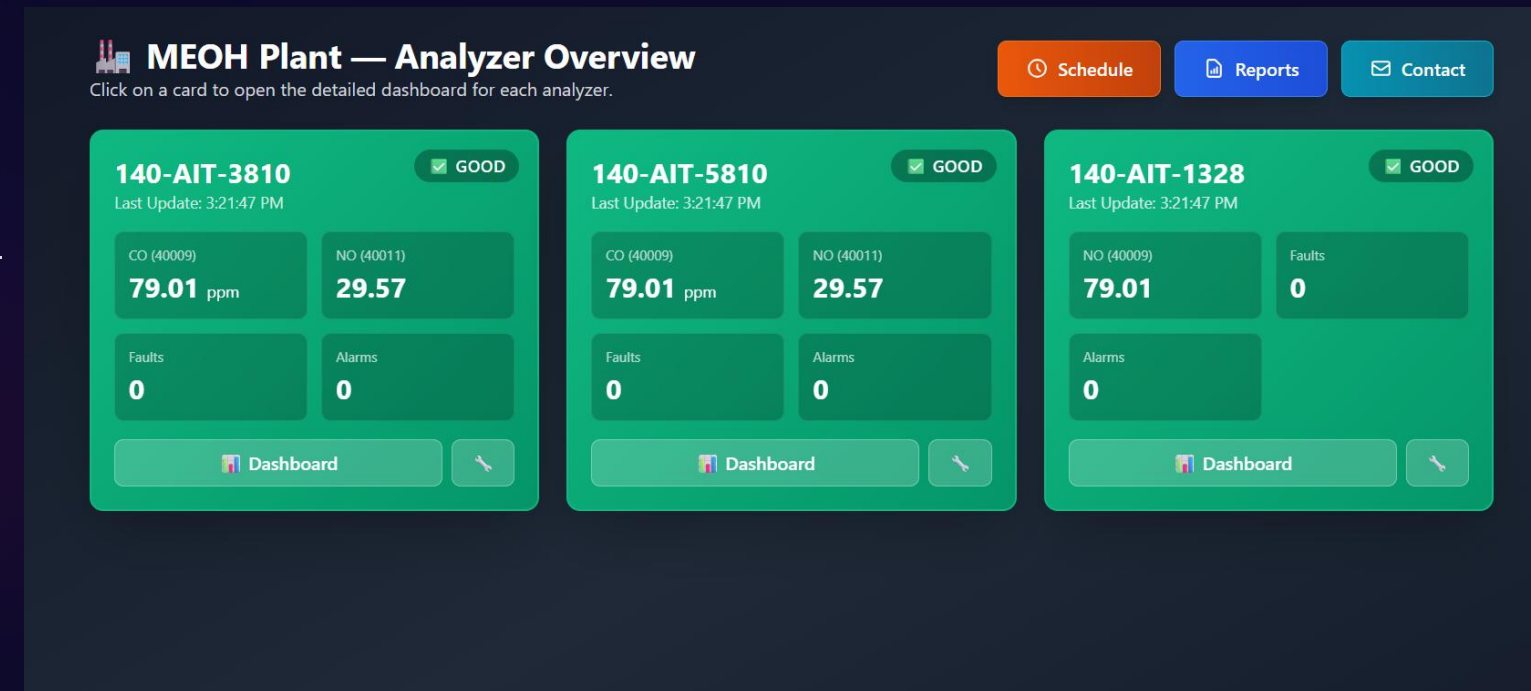
Real-Time Multi-Analyzer Monitoring

Live values, operating modes, alarms, and historical trends coming from multiple sensors are presented in a clear and easy-to-understand format, making it suitable for both day-to-day operations and long-term performance review.

Our focus

- faster response time
- better operational decisions
- improved system reliability

The intuitive dashboard design ensures that critical information is always accessible when you need it most.

Automated Workflows and Comprehensive Management

Automated Workflows

IntelliStream supports **automated and guided workflows** for validation, calibration, cleaning, and maintenance activities. Users can run these activities manually or set up **scheduled operations** to occur automatically on a daily, weekly, or monthly basis.

Alarm Management

IntelliStream includes **comprehensive alarm and fault management**, helping users detect issues early and understand their impact over time.

Local Data Storage

All measurements, activities, logs, and reports are stored locally on the system for easy historical access.

Designed for continuous industrial operation, IntelliStream simplifies complex analyzer management tasks into clear visual dashboards and guided actions, helping users maintain accurate measurements, reduce downtime, and meet operational and compliance requirements.

Key Functions at a Glance

Live Analyzer Monitoring

View real-time measurements, analyzer modes, and system status for one or multiple analyzers.

Alarm and Fault Awareness

Identify alarms, warnings, and faults with clear indicators and review their history and duration.

Validation Management

Run complete or individual validation tests with automatic sample collection, progress tracking, and clear results.

Calibration Management

Perform zero, span, and full calibration cycles with automatic reports.

Cleaning and Maintenance

Execute cleaning cycles and manual blowback operations while ensuring safe operating conditions.

Scheduling and Automation

Schedule validation and calibration activities to run automatically at defined intervals.
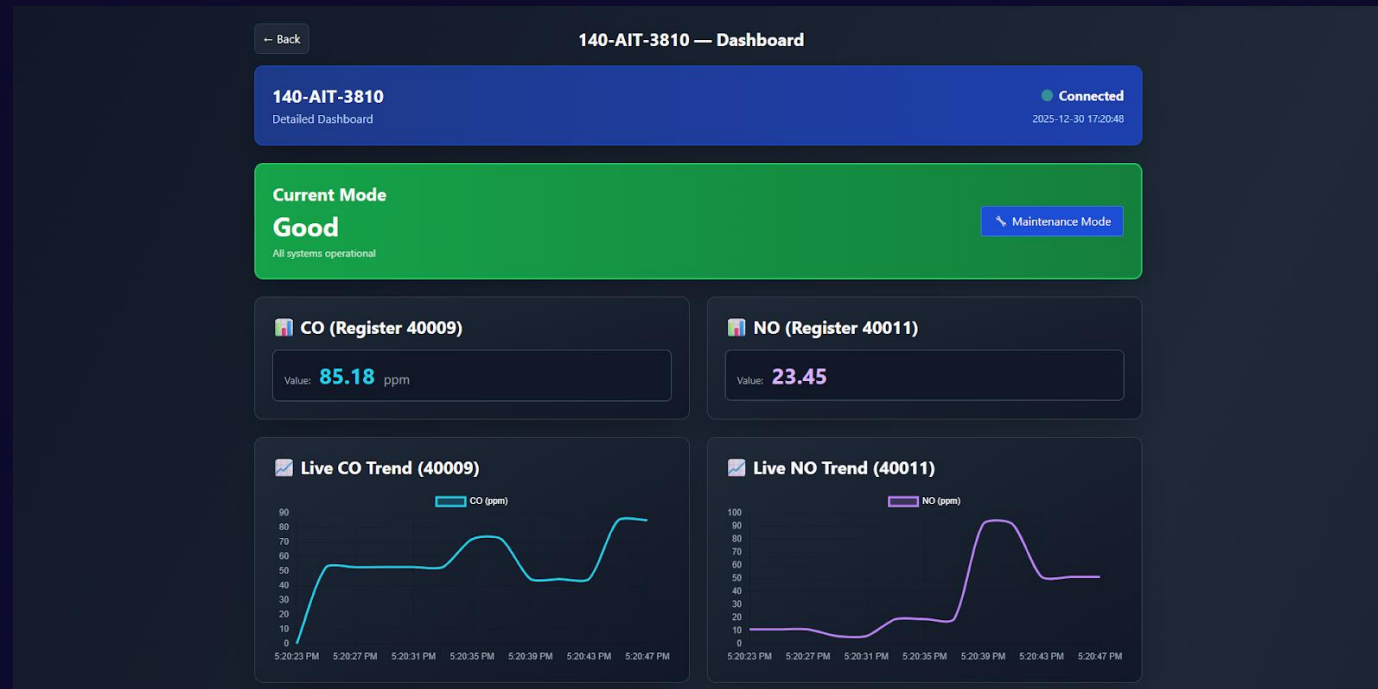
Reporting and Documentation

Automatically generate reports for validation, calibration, and maintenance activities.

KPIs and Statistics

Get statistics and reliability metrics aggregated from historical measurements

Simple Deployment Architecture

IntelliStream is delivered as a Windows-based application that can be accessed through any modern browser. No separate server installation or database setup is required.

The straightforward deployment model means you can get up and running quickly without complex IT infrastructure. Simply install the executable, launch it, and access the full application through your preferred web browser.

Who Uses IntelliStream

Plant Operators

Monitor live sensor data, track alarms, review daily operation status

Maintenance Engineers

Review component history, log maintenance activities, perform calibrations and validations

Plant Supervisors

Access reports, review KPIs, analyze performance trends

Plant Administrators

Manage user access, configure equipment, and maintain system settings

Comprehensive Reporting Capabilities

IntelliStream provides flexible reporting options to support different analysis timeframes and operational needs. Reports are created as per regulatory requirements for process analyzers.

1 Hourly Reports

Detailed view for short-term (1 minute) troubleshooting and incident analysis.

2 Daily Reports

Hour-by-hour summaries for daily performance review and shift handovers.

3 Monthly Reports

Day-by-day summaries to identify trends and recurring issues.

4 Yearly Reports

Month-by-month summaries for long-term analysis and compliance reporting.

Key Performance Indicators and Reliability Metrics

MTBF (Mean Time Between Failures)

- Average operating time between failures
- Higher values indicate better reliability

MTTR (Mean Time To Repair)

- Average time required to restore operation after a failure
- Lower values indicate efficient maintenance

Other Metrics

- Availability
- Uptime
- Downtime
- Failure rate

Cleaning and Blowback Operations

What Are Cleaning and Blowback

- **Cleaning:** Removal of deposits and contaminants

- **Blowback:** Use of air or gas to clear blockages in sample paths

Why They Are Necessary

- Prevent contamination

- Maintain measurement accuracy

- Reduce alarms and downtime

Monitoring Cleaning and Blowback Operations

IntelliStream allows you to schedule and trigger cleaning or blowback from the application to keep the system healthy.