A Universal Platform to Monitor and Control Your Process

sciemetric EDGE

Sciemetric EDGE Helps You Perfect Your Process in Record Time

Sciemetric EDGE provides an exciting, new way to monitor a process, perform real-time control and gain the visibility needed to optimize operations. Using digital signal processing and powerful data analysis, Sciemetric EDGE offers in-depth insight into the performance, reliability and repeatability of a wide range of industrial applications.

Modular Solution for Any Combination of Digital and Analog I/O

EDGE 421

Universal sensor I/O module to simplify data acquisition

EDGE 422

High speed multi-buffer analog sampling for demanding industrial applications

EDGE 431

Flexible 5 V digital I/O module

Intelligent

Each module contains its own compute and storage power for true distributed edge computing. Set up, analyze and update your application with a single software – Sciemetric Studio, featuring advanced digital process signature analysis.

Rugged

With, IP65-rated packaging, Sciemetric EDGE is designed for harsh, industrial environments. Install it nearly anywhere, without the cost and complexity of an enclosure.

The Platform for Industrial Monitoring and Process Control.

Sciemetric EDGE Studio Software

Sciemetric EDGE software provides a comprehensive set of capabilities from module discovery and application creation through to data review and optimized application deployment.

Expandable, Multi-Channel Data Acquisition

EDGE 412

Dual Carrier

EDGE 414

Quad Carrier with 403 Interface, single carrier

EDGE 414

Quad Carrier with 403 Interface, side stackable up to 10 carriers

Scalable

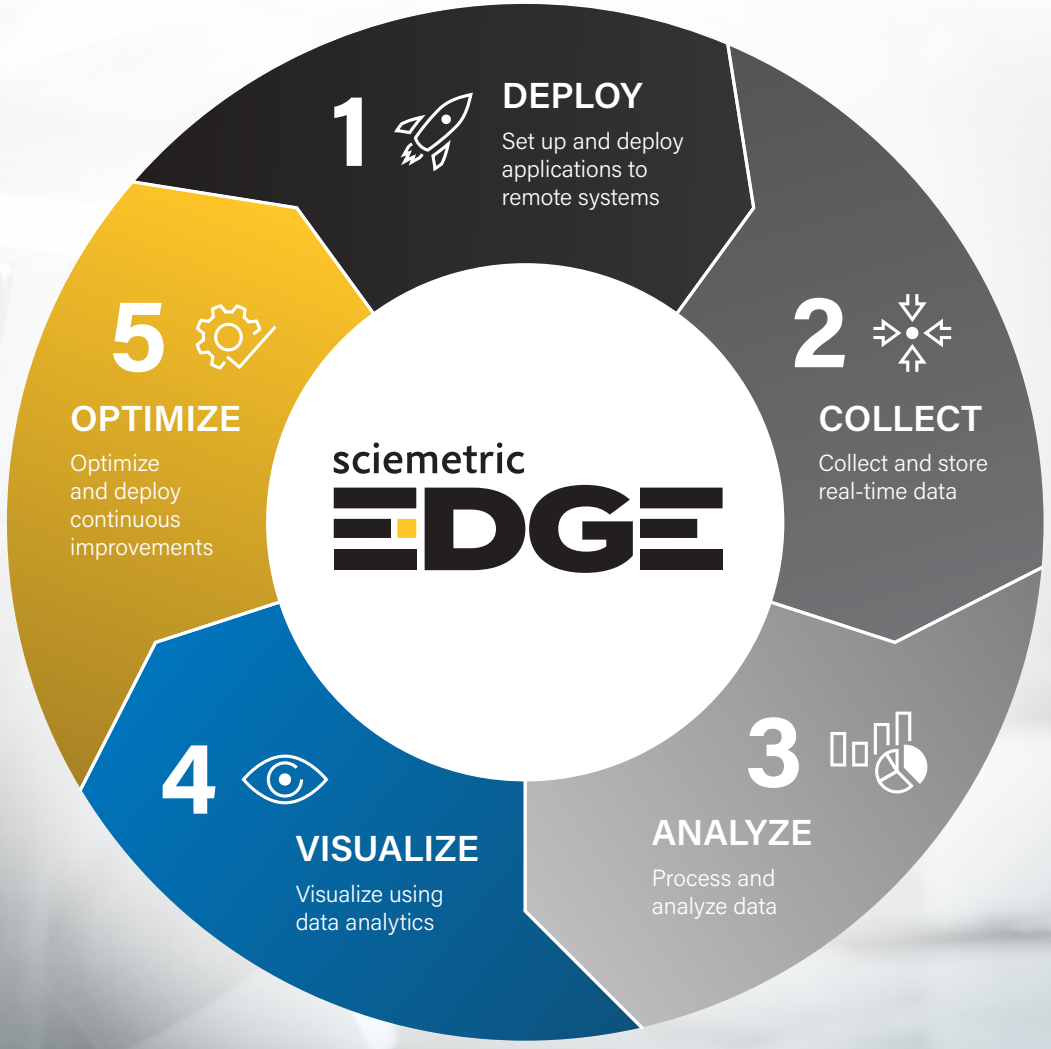
Whether you need one channel or 40, Sciemetric EDGE will work for your application. Its compactness and modular design make it easy to place wherever you need a process digitized, regardless of complexity.

Universal

Sciemetric EDGE provides powerful data processing and analysis connected directly to the sensor—any sensor.

Close the Continuous Improvement Loop with Sciemetric EDGE Studio Software

Powerful Sciemetric EDGE Studio software lets you do everything from module discovery and setup to full data analysis and process optimization with a single software tool.



Using Sciemetric Studio analytics software, you can perform all the tasks related to your network of Sciemetric EDGE modules. System setup and management – including configuring modules, setting feature regions and limits, determining variants, establishing parameters and initiating deployment and backup – is quick and easy. You can visualize the daily operations of your industrial application, including trending and in-depth analytics, and output the information to reports. When problems arise, you can conduct root cause analysis and then optimize the process.

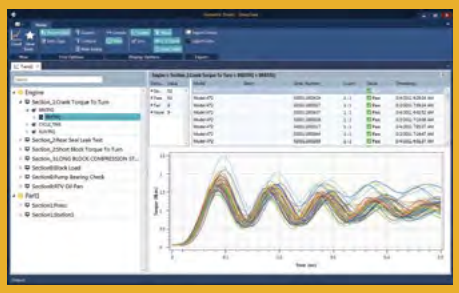
Application limit setting

Data trend and single part report

Live diagnostics of station

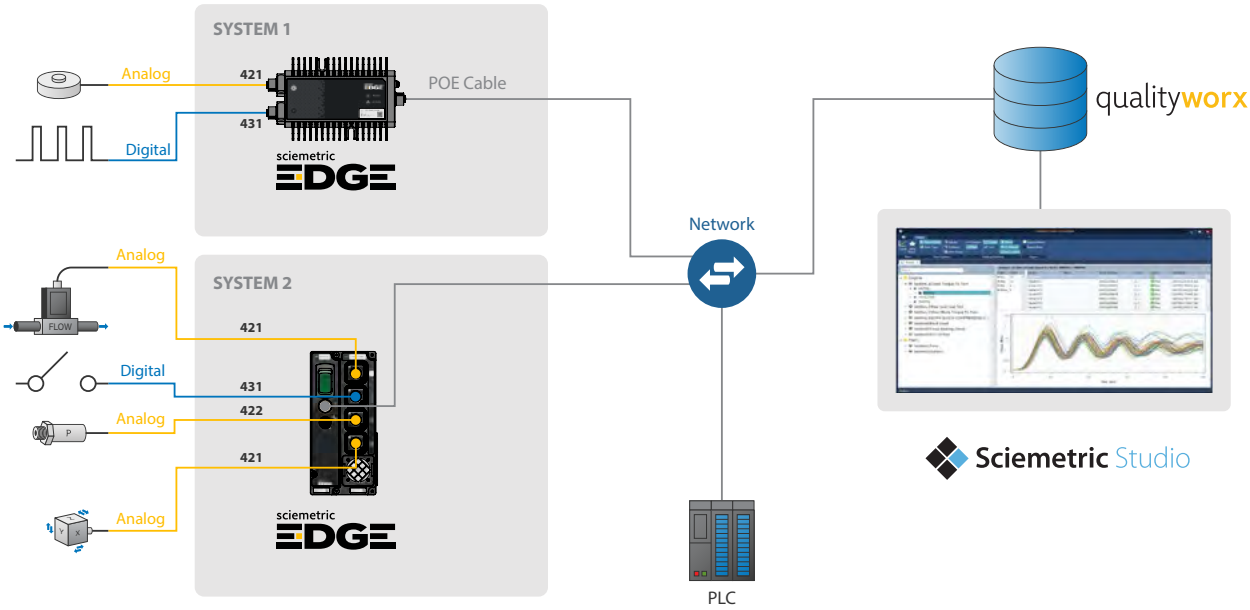
Digital Process Signatures

A digital process signature (or waveform) is a visible representation of an industrial operation. It's called a "signature" because each combination of a part and a process is unique – and with any controlled process, the signature is repeatable and consistent when parts and machines are meeting specifications. A signature is derived from hundreds of datapoints, giving you a more accurate view of an industrial process. When issues arise or when you want to proactively improve your process, signatures provide all the information you need to identify problems and make improvements.



Sciemetric EDGE in the Network

Sciemetric EDGE's modular form factor, scalability and ability to accept nearly any analog or digital input means it can be deployed for process monitoring and control in a wide variety of applications using a standard network architecture.



Connect to Virtually Any Sensor

Sciemetric EDGE modules can connect directly to almost any sensor used in industrial applications today for maximum flexibility and low overall system cost.

- Bridge
- mV, V, AC or DC
- Current
- Resistance
- IC Temperature Sensor (AD590)
- Thermistor
- 4-Wire Sensor
- Humidity
- Resistance Temperature Detector
- Load Cell
- Force Distance
- Strain Gage
- Mass Flow
- Accelerometer
- Laser
- Rotary Encoder
- Pressure
- Torque
- Vane Anemometer
- Microphone
- Solar
- CdS Photocell
- Wind Speed

Why Choose Sciemetric EDGE?

GOAL: Handle multiple applications

The Sciemetric EDGE solution is based on the concept of universality. The system is highly scalable, supports any combination of digital and analog I/O, can communicate with virtually any sensor at high speed, and supports any processing, analytics and control requirements. This flexibility means you can deploy a common platform with common spares and a single learning curve to achieve multiple applications.

GOAL: Reduce barriers to data

Sciemetric EDGE is easy to deploy, so you can start collecting and analyzing data in hours instead of days or weeks. The compact industrial modules offer direct machine mount and direct sensor connections with a low total system cost.

GOAL: Comprehensive data analysis with efficient storage

With Sciemetric EDGE, you can analyze all the data so you don't miss any anomalies that might be causing issues in your operations. The system's distributed intelligence can analyze all the data while storing critical information to reduce data load and network bandwidth.

GOAL: Manage applications easily

Sciemetric EDGE includes modular software that provides data-driven setup, rapid parameter editing, and application management. The result is a consistent deployment that is quick and easy to set up.

GOAL: What do you want to do?

Sciemetric EDGE is a versatile, flexible platform designed for the varied requirements of smart industrial deployments. Contact Sciemetric today – we'd love to talk about your application.

For more info on how the Sciemetric EDGE platform can help you perfect your industrial process in record time, visit www.sciemetric.com/edge

About Sciemetric

Since 1981, Sciemetric's process monitoring and quality management systems and software have enabled some of the world's leading industrial companies to gain visibility into and control over their processes. Process Signature Verification (PSV) technology provides the most accurate determination of process health and part quality while collecting all data. Our customers use Sciemetric's analytic tools to transform the data into actionable information to reduce costs, manage quality, increase efficiency, and maximize yield while providing proof of process compliance and complete traceability. Visit sciemetric.com for more information.

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JUNE 2021 – PRINTED IN CANADA