Control Performance Monitor CX (CPM CX) is the simpler and more scalable version of CPM. CPM CX can be installed quickly with minimum configuration due to infrastructure improvements and next generation monitoring algorithms. It has scalable single input and output loop monitoring capability from 50 to 1500 loops. CPM CX is the basic building block for an effective and comprehensive loop management offering, scalable from a single unit to Enterprise-wide applications. TaiJi PID can be used with problem loops identified by CPM CX for tuning.

**Continuously Monitor and Assess PID Loop Performance**

Using a condition-based maintenance methodology, the PID Loop Monitoring module automatically and continuously monitors all regulatory control assets on a single screen, detects and prioritizes problems according to their impact in order that personnel can take appropriate action.

By intelligently identifying and reducing unwanted control loop variability, plant personnel are able to focus engineering and control maintenance on priority problems and sustain long term control improvements.

**Jump to the answer**

Next generation monitoring technology, allows users to skip lengthy investigations and directly identify loops that require tuning or mechanical adjustment. Since all the problems are not clear, CPM CX offers a step by step process of troubleshooting for those loops where further investigation is required. Hence, users can tune, fix, or investigate further.

**Connectivity**

Control Performance Monitor - CX is vendor neutral, with easy connectivity tools. This product works with many third-party control systems and applications. It can write to and retrieve process data from OPC-HDA compliant historians.

**Data Collection, Cleaning and Analysis**

CPM CX collects information such as, process variables, set points, controller output, and controller modes from historical control loop data. It removes or replaces bad data such as non-numeric or missing values and outliers with standard rules. It writes and stores results of data analysis to historians and/or databases.

**Performance Assessment**

Performs data preparation and calculates basic loop performance measures such as basic statistics, service factors and controller saturation. Benchmarks performance and computes advanced loop performance measurements.
Assessments may include:

- Loop performance index
- Relative performance index
- Stiction probability
- An oscillation index, which identifies and troubleshoots disturbances that cause loops to cycle by computing the oscillation strength and period for a set of variables
- Common Oscillations – clusters of loops oscillating at close to the same frequency
- Expert guidance to help user in identifying the problem of loops that are classified as "Investigate further"

Reporting Capabilities

CPM CX accelerates decision-making for all stakeholders with comprehensive reporting capabilities.

Maintenance Planner

Identifies problem controllers and assigns maintenance resources to handle critical issues.

Plant/Department Manager

Managers can view unit by unit performance summary for a given department, and determine maintenance effectiveness. CPM CX enables resource allocation by identifying consistent poor unit performance.

Unit Supervisor

View performance of all controllers in a given unit and identify persistent poor performers, events and disturbances that affect an entire unit.

Process Engineer, Control Engineer & Maintenance Technician

Users can identify problems affecting multiple controllers or entire units and isolate the cause. Receive detailed analysis of problem controllers in order to diagnose problems and determine solutions.

Users can identify patterns of poor controller performance over time and through various operating conditions.

Support Services

This product comes with worldwide, premium support services through our Benefits Guardianship Program (BGP). BGP is designed to help our customers to improve and extend the usage of their applications and the benefits they deliver, ultimately maintaining and safeguarding their advanced applications.