Software &
Information Technology

Module Performs Rapid Analysis of Precious Metals

The Thermo Scientific iTEVA Precision software module enables high-precision, automated analysis of high-concentration elements and precious metals. It seamlessly integrates with the iCAP 6000 Series of inductively coupled plasma optical emission spectrometers (ICP-OES). The module features advanced data processing, which routinely enables relative standard deviation (RSD) values of less than 0.3% between sample aliquots to be achieved. In addition, the powerful automated data processing capability makes labor-intensive external calculations unnecessary and eliminates the potential for human transcription errors associated with performing manual offline calculations. Another benefit is the software's ability to perform required post-run data reprocessing without re-analyzing samples, which accelerates workflows and conserves high-value samples. The software provides flexible options for unit sets that are user-definable on a per-analyte basis. Customizable data-filtering and reporting tools are also available, enabling users to maintain their preferred workflow while automating current sample-analysis processes. In addition, the software offers multi-language support, including English, German, French, Chinese, Japanese, and Russian.
Thermo Fisher Scientific Inc.
www.thermoscientific.com/iteva

Upgrade Adds Multilanguage Support and New Features

Service Pack 1 is a major upgrade for Web Studio v7.0 that adds new features, such as multiple language development support for Japanese, French, Portuguese, and German, along with SSL email (support for Gmail), new symbol libraries, new drivers, and more. Statistical process control (SPC) allows machine and process performance to be optimized. Without making any modifications to the project, the user can enable the SPC capabilities to display the average, minimum, maximum, and standard deviation for process values in real-time by simply clicking on an icon, with no programming necessary. A new OLE for Process Control (OPC) module supports XML applications with full control over communication. Users can send and read any process variable on demand and control when items are enabled or disabled. Automatic expansion makes it easy to configure arrays. The OPC module also supports multithreading capability, allowing multiple communication threads even when connecting to the same server. Tag integration enables users to easily use CoDeSys tags. VBScript parallel execution support adds even more flexibility, allowing global procedures to be run in either a multithreaded or linear execution.
InduSoft
www.indussoft.com

Software Automatically Finds Root Causes of Upsets

PlantTriage's latest enhancement, Root Cause Finder, employs advanced mathematical techniques to automatically identify the root causes of process upsets, without requiring any process models or other prior knowledge of the process.

Upsets that start in one part of a plant are reflected in the data patterns observed in other parts of the plant. By evaluating the correlations among instrument readings throughout the entire manufacturing facility,

and the time-shift from one correlation to the other, PlantTriage is able to determine the most likely sources of process variation. Root Cause Finder results, color-coded to show the extent and the time-lag of the cause, are displayed graphically, at the top of PlantTriage's Process Interaction Map. Other affected process areas are also shown on the display.
ExperTune
www.planttriage.com