MKS Announces Release of MODDE® 12

MKS Enhances Its Design of Experiments (DOE) Data Analytics Solution with Innovative One-Click Analysis and Generalized Subset Designs (GSD) Features

ANDOVER, Mass., Feb. 22, 2017 (GLOBE NEWSWIRE) -- MKS Instruments, Inc. (NASDAQ:MKSI), a global provider of technologies that enable advanced processes and improve productivity, today announced the release of MODDE 12, an advanced, high-quality Design of Experiments (DOE) data analytics solution. An enhancement to the MODDE 11, the MODDE 12 is straightforward to use, with an intuitive graphical interface and clear data visualization and analytics support. Ideal for DOE at all levels of development, the MODDE 12 enables effective and accurate decision-making, giving the user complete confidence in interpreting results.

The MODDE 12 adds two new key features from MKS' previous MODDE 11 version:

- One-click analysis enables customers to run data analysis automatically. The process of analyzing data from a design or set of experiments is critical for arriving at accurate conclusions and making accurate predictions using the data at hand. MODDE 12 takes into account all adjustments necessary according to standard procedures and will notify the user with a decision or a proposed action.

- The new Generalized Subset Designs (GSD) entry in MODDE 12 allows for reduced designs even when handling multilevel factors. Innovative in the marketplace, the reduced designs complement one another perfectly. By generating a series of reduced designs and subsets that are logically linked, when combined, all subsets will add up to a full multilevel, multifactorial design where all factor combinations are encoded by the global design. Conceptually, the output of GSD is similar to how two-level fractional factorial designs represent complementary reductions of two-level full factorial designs. However, the new GSD can be used as standalone fractional factorial designs. The criteria are to generate design sets as orthogonal, equivalent and balanced as possible. Each design set is an integer fraction of all possible combinations, i.e. ½, ⅓, ¼ etc., fraction of all factor combinations.

"Leveraging our 30 years of data analytics experience, our powerful new MODDE 12 with one-click analysis and GSD will enable scientists across almost any market, from petrochemicals, pharmaceuticals, food, and fragrance, to pulp, paper or plastic to deliver quality assessments of results, leading to more informed decisions, and therefore improved profitability," said Jakob Mohr Christensen, Managing Director, MKS Instrument AB, Data Analytics Solutions.

The MODDE 12 will be available in MODDE Pro and MODDE Go versions.

MODDE Pro provides quality analysis on decisions and looks at the total risk picture for the overall options. It is designed to warn the user about critical settings and guide them towards more robust settings. Unique features include robust optimization and the complementary setpoint analysis, including risk estimates. Additional specific features include reduced balanced multilevel design that elegantly solves complicated design problems.

MODDE Go is the most competent and easy-to-use DOE solution available today. By maximizing the performance of highly complex products and processes, its intuitive graphical interfaces and detailed data visualization deliver effective and accurate results that allow users to confidently create an experimental design and accurately interpret the results.

MKS' MODDE 12 will be featured at the IFPAC Annual Meeting, Bethesda North Marriott, North Bethesda, Maryland (Washington, D.C.), February 27 - March 2, 2017. Please visit MKS at booth #407 to discuss how we can work together, as well as see our demonstration of MODDE's design space in the Microsoft HoloLens (augmented reality solution).

About MKS Data Analytics Solutions Business Unit
MKS Data Analytics Solutions are leading data analytics experts with multiple applications in high-tech industries worldwide. We enable customers at both the individual and enterprise levels to maximize the value of their data, enabling better decision-making and process excellence. To learn more about how MKS Data Analytics Solutions can help you grow your business please visit www.mksdataanalytics.com.

About MKS
MKS Instruments, Inc. (NASDAQ:MKSI) is a global provider of instruments, subsystems and process control solutions that measure, control, power, monitor and analyze critical parameters of advanced manufacturing processes to improve process performance and productivity. Our products are derived from our core competencies in pressure measurement and control, materials delivery, gas composition analysis, control and information technology, power and reactive gas generation, vacuum technology, photonics, optics, lasers and motion control. Our primary served markets are manufacturers of capital equipment for electronic thin film, process manufacturing, environmental monitoring and life sciences, as well as government and research.

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