Press Release

New Rexroth IndraControl XM series programmable logic controllers integrate I/O for speed and flexibility

Released in 2016, the new IndraControl XM control family combines the speed of the Sercos automation bus with Rexroth’s IndraControl S20 I/O series into one functionally complete and modular control system.

► Easy and flexible system configuration with modular I/O expansion
► High-performance data processing
► Scalable firmware for motion logic applications

Bosch Rexroth’s IndraControl XM21/22 (left) programmable logic controller and Bosch Rexroth’s IndraControl XM12 (right) programmable logic controller further contribute to the speed and flexibility of the Rexroth IndraControl XM series.

The new Rexroth family of programmable logic controllers, XM 12/21/22, integrates the modular IndraControl S20 I/O series into the controller. When combined with the Sercos automation bus, new levels of speed and flexibility are added to make one functionally complete and scalable control system. The IndraControl XM platform is easy to configure and features high-performance real-time data processing capabilities.

IndraControl XM 21/22: Easy and flexible system configuration with modular I/O expansion

Bosch Rexroth’s IndraControl XM21/22 programmable logic controllers (PLC) combine the speed of the Sercos automation bus with Rexroth’s IndraControl S20 input/output (I/O) series for one functionally complete and scalable control system. The controllers are available with either an Intel® 600 or 1,300 MHz ATOM processor (XM21/22), along with an onboard Sercos master featuring a cycle time as low as 250 µs.
The new XM 12: Lower cost solution for medium-power applications
Bosch Rexroth’s IndraControl XM12 expands the XM range to provide scaled modularity and fully functional control system for less demanding factory automation applications. The IndraControl XM12 is a modern control platform with a powerful dual core Cortex A9 processor and on-board Sercos master for clocked fieldbus connections.

Flexibility, high performance real-time processing
Ideal for all factory automation and motion logic applications, the IndraControl XM platform is easy to configure and features high-performance real-time data processing capabilities.

By integrating the company’s modular IndraControl S20 I/O series into the controller, Rexroth adds to the flexibility of the control system. Optional extension modules further expand the integration options, while a service-friendly design reduces installation costs.

Decentralized I/Os, drives and additional system machinery are connected by Ethernet-based Sercos as a universal automation bus for system-wide networking. Enhancing the scalability, the XM controller uses Rexroth’s standard IndraMotion MLC system firmware for motion logic applications.

Compatible with a wide range of control topologies, Rexroth’s IndraControl S20 I/O units feature short module reaction times of 1 µs per module for efficient production cycles and real-time signal processing of measuring systems and intelligent sensors, even under extreme conditions.

Ready for Connected Industry
The XM12/21/22 controllers were built with connected industry in mind. All fully utilize the features of Rexroth’s Open Core Interface, opening the door to multiple software development environments using a standard SDK, tailored for each development software. This allows integration into a wide range of systems, for a truly connected solution.

For more information on the new IndraControl XM series, visit www.boschrexroth-us.com/XM.

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Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 31,100 associates generated sales revenue of approximately $5.99 billion (5.4 billion euros) in 2015. To learn more, please visit www.boschrexroth.com.

About Bosch

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 375,000 associates worldwide (as of December 31, 2015). The company generated sales of $78.3 billion (70.6 billion euros) in 2015. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiaries and regional companies in some 60 countries. Including sales and service partners, Bosch’s global manufacturing and sales network covers some 150 countries. The basis for the company’s future growth is its innovative strength. Bosch employs 55,800 associates in research and development at 118 locations across the globe. The Bosch Group’s strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is “Invented for life.” Additional information is available online at www.bosch.com, www.bosch-press.com, twitter.com/BoschPresse.

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