SIEMENS

Press

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AI-based service edge app from Siemens for higher availability of drives

- **Predictive Service Analyzer provides information about anomalies in the drive system**
- **Increased plant availability by up to 30 percent through reduced production downtime**
- **AI-based algorithm for drive systems**

As part of Predictive Services for Drive Systems, Siemens is expanding its offering at the Hannover Messe with an edge application. The Predictive Service Analyzer indicates defects in the drive system at an early stage before they affect the entire production. As a result, unplanned production downtime can be avoided and maintenance times can be scheduled in good time, increasing plant availability by up to 30 percent. By scheduling maintenance and servicing activities based on actual demand, this increases productivity by up to 10 percent. The Predictive Service Analyzer's AI-based solution detects early signs of anomalies, such as those indicating mechanical damage in the motor, including bearing damage, imbalance, and misalignment, as well as critical operating conditions of the frequency converter. The app assesses the severity of the defect and the expected remaining runtime and can thus predict potential future failures.

The Predictive Service Analyzer is particularly suitable for applications with constant movements, as is the case with pumps, fans, and compressors or with motors that do not require speed control. In comparison to the MindSphere app Predicitve Service Assistant, which has already been launched on the market, the Edge App's analysis is based on the evaluation of very high data volumes in near real time. The edge-based solution also serves secure data handling in the plant and reduces costs for cloud data transfers. In combination with the Predicitve Service Assistant, the Predicitive Service

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Analyzer can preprocess data as needed, which can then be used within the MindSphere App for further insights and recommendations for action.

The Predictive Service Analyzer edge application is a further element of the Predictive Services for Drive Systems, a standardized extension to the local service contract. They are used for more efficient maintenance of Sinamics frequency converters and Simotics motors. With Predictive Services for Drive Systems, customers benefit from higher productivity and reduced unplanned downtime of their machines and systems. Users also benefit from full transparency on spare parts as well as on maintenance activities to minimize risks through simple weak-point analysis. With Predictive Services, Siemens offers a comprehensive range of services for industry. Each industry requires specific Predictive Services, which the technology company has developed based on its extensive industry expertise. The modular services for collecting, analyzing, and evaluating machine data are adapted to the requirements of various industries.

Caption: The Predicitve Service Analyzer has an integrated dashboard. The AI-based edge app is also suitable for users without AI knowledge and provides information about anomalies in the engine.

This press release and a press picture are available at https://sie.ag/38598Aw

Further information on Siemens at Hannover Messe please see
www.siemens.com/press/hm and www.siemens.com/hm

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