



Press Release

Energy-saving fan with MODBUS RTU

Interface of the future

Two fans per running meter are normally installed in supermarket refrigerated display cases, which are in operation almost 24 hours a day. The rugged and compact energy-saving fans from ebm-papst with their high-efficiency GreenTech EC motors are ideal for this application. Now they feature a MODBUS RTU interface for remote monitoring, control and regulation.

Remote monitoring during operation

For years, energy-saving fans from ebm-papst have been the first choice when it comes to reliable cooling in supermarkets. They are proven axial fans designed for installation beneath the shelves in refrigerated and deep-freeze cabinets. With their new serial interface for MODBUS RTU communication, many monitoring, control and regulation functions can now be performed remotely during operation and in real time, enabling operators to adjust operating parameters quickly in order to respond promptly to changing situations such as day/night mode or frequent opening of the doors at times of high demand.

Preventive maintenance to avoid downtime

Recording the operating time facilitates preventive maintenance for effective avoidance of downtime. Should servicing still be needed, the affected fans are easily recognized thanks to MODBUS RTU communication. Fail-safe functionality enables safe operation even in the event of a bus communication failure; the fans simply continue to run at the configured speed.

Additional energy savings through reduced demand for refrigeration

With networked devices, overall system efficiency can be significantly increased by demand-based speed control of individual units. Specific speeds can be set in switching mode via RSA and RSB. Reduced demand for refrigeration power correspondingly reduces the amount of power needed by the compressors, with positive effects on total energy consumption.

Mechanical compatibility

The impellers are aerodynamically optimized, making the fans very quiet. Moreover, the energy-saving fans need no paint – a bonus for the environment. The new MODBUS RTU version is mechanically compatible with the existing ESM series. Its 24 VDC power supply and simple plug & play connection to building control systems make it easy to install and highly versatile. The fans will be available as of July 2017.

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The energy-saving fan's MODBUS RTU interface enables remote monitoring and control.

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About ebm-papst

The ebm-papst Group is the world's leading manufacturer of fans and motors. Since it was founded, the technology company has continuously set global market standards. Developments have ranged from electronically controlled EC fans, through aerodynamic improvements of fan blades, on to the resource-conserving selection of materials, with sustainable materials being just one option.

In fiscal year 2015/16, the company achieved sales of almost €1.7 billion. ebm-papst employs approximately 13,000 people at 25 production sites (in Germany, China, the United States and elsewhere) and in 49 sales offices worldwide. Fans and motors from the global market leader can be found in many industries, including ventilation, air conditioning and refrigeration, household appliances, heating, automobiles and drive engineering.