SIEMENS

Press

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New Sirius temperature monitoring relays offer more functions in less space

- **New 3RS2 product series for monitoring the temperature of gases, liquids, and solids in industrial and infrastructure installations**
- **Overall width was cut in half and allows space-saving installation**
- **Combining functions into one device simplifies order selection**

Siemens Smart Infrastructure has transformed the temperature monitoring relays from its Sirius portfolio. The new series 3RS2 devices are available in analog and digital versions. They use sensors to measure the temperature in industrial control cabinets, of engine, bearing, and transmission oils, or cooling liquids, preventing plant malfunctions or damage that can result when exceeding or dropping below certain limit values. These relays can also monitor heating, air-conditioning, and ventilation systems, solar collectors, heat pumps, and hot water supply systems. The devices in the new Sirius 3RS2 series are approved for safety applications up to SIL 1 / PL c, for use in industrial furnaces, as well as for monitoring burners and ATEX applications, among other things. Compared to the predecessor models, they feature expanded functionalities, a narrower design, and easier operability.

Measuring only 22.5 millimeters wide, the Sirius 3RS26 digital devices are parameterized via an intuitive LCD display and can be connected to a sensor that evaluates whether the temperature is above or below a certain value or within a specific operating range (window function). A SIL1-certified infrared communications interface makes it possible to wirelessly add two resistance sensors and one analog input. As a result, they can also monitor large, three-phase motors and transformers.

The integrated LCD display provides new functionalities, such as an energy-saving mode (ecoMode) and improved calibration capabilities. If values exceed or drop below limit temperatures, the plant concerned is automatically shut down.

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The second limit value may be used to issue a warning. By changing color, the display indicates the equipment status (error, warning, limit value exceeded). If a fault occurs, such as a cable break, the relay switches to a safe state.

Variants are available for one sensor, two threshold values, and all common resistance sensors and thermocouples. The devices can be reset manually, by remote access, and automatically. A memory function ensures that the last device state is stored and recovered in the event of a blackout. The digital devices are also available with an IO link, so that temperature data can be forwarded to higher-level controllers and integrated in open cloud-based IoT systems, such as MindSphere. They are certified according to functional safety standards (IEC 61508/62061 and ISO 13849) and can therefore be used in safety applications up to SIL 1 / PL c. They are also approved as temperature monitors and limiters according to EN 14597 and can be used in industrial furnaces. Burners can also be monitored, thanks to EN 50156 certification.

The analog Sirius 3RS25 multifunction devices are set via rotary and slide switches and can also be used as simple two-position controllers. They detect the temperature via a sensor in the respective medium and evaluate the data to determine whether it has exceeded or dropped below the predefined limit temperature. They can switch loads directly via a relay changeover output once a threshold value has been reached. The opener for the changeover output can be simultaneously used as a signaling contact. The product series includes devices for a resistance sensor or a type J or type K thermocouple, which can monitor a threshold value for the most common temperature ranges.

The new Sirius 3RS2 devices replace the series 3RS1 predecessor models.

This press release and a press picture are available at
https://sie.ag/3dj4U5e

For further information on Siemens Smart Infrastructure, please see
www.siemens.com/smart-infrastructure

For further information on Sirius temperature monitoring relays, please see
www.siemens.com/relays

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. The company is active around the globe, focusing on the areas of intelligent infrastructure for buildings and distributed energy systems, and automation and digitalization in the process and manufacturing industries. Through the separately managed companies Siemens Energy, the global energy business of Siemens, and Siemens Mobility, a leading supplier of smart mobility solutions for rail and road transport, Siemens is shaping the energy systems of today and tomorrow as well as the world market for passenger and freight services. Due to its majority stakes in the publicly listed companies Siemens Healthineers AG and Siemens Gamesa Renewable Energy (as part of Siemens Energy), Siemens is also a world-leading supplier of medical technology and digital healthcare services as well as environmentally friendly solutions for onshore and offshore wind power generation. In fiscal 2019, which ended on September 30, 2019, Siemens generated revenue of €86.8 billion and net income of €5.6 billion. At the end of September 2019, the company had around 385,000 employees worldwide. Further information is available on the Internet www.siemens.com.