

Press Release

Smart and Ultra-Compact: Gefran Launches the New GRM-H Power Controller

Provaglio d'Iseo, 14 December 2022. **Gefran** – Italian multinational specialising in the design and production of sensors, instrumentation for industrial process control, and automation systems – presents the **GRM-H power controllers with integrated diagnostics**, based on the scalable GRx platform, dedicated to the control of **resistive loads** in industrial heating. The solution is characterised by an **ultra-compact** design and by the **IO-Link** interface, which guarantees advanced features in an Industry 4.0 perspective.

“The new GRM-H are capable of meeting the needs of a wide range of applications, where high performance in temperature control is required: from the heat treatment of metals, to the production of glass and processing of plastic materials, to semi-conductors, up to the food and pharma sectors” said **Paolo Buzzi**, **Gefran** Controllers & Power Controllers Marketing Manager, who continued *“In particular, this innovative series integrates the typical characteristics of a power controller within the dimensions of a solid state relay (SSR). Available in current sizes from 15A to 120A, they guarantee easier installation and enable the management of linear and non-linear resistive loads, such as MoSi2, Sic, SWIR, graphite and transformers”*.

GRM-H are **single-phase** power controllers, which in a **Master/Slave** configuration also enable the control of three-phase loads. They are equipped with all the main **firing mode** technologies, from Zero Crossing and Burst Firing, to the Half Single Cycle and Phase Angle, useful for adjusting control according to the various characteristics of the heating elements. Also, in addition to the **Soft Start** function, ideal for IR Lamps, they provide **Feedback** algorithms that make the regulator a constant source, with modifiable voltage, current or power set points. An important advantage for certain types of resistors, such as silicon-molybdenum, silicon carbide or graphite resistors.

A particularly distinctive element of the **GRM-H** series is the **IO-Link** connectivity. These are the **first** power controllers in the world to adopt this protocol which enables digital communication from the field level to the higher factory level. Therefore, in addition to cyclic process data, you can also record **acyclic variables** such as hours in operation, temperature peaks, energy and internal temperature, for the purpose of the machine's efficient **predictive maintenance**.

Thanks to the **smart configuration** through the Gefran NFC APP, available for Android and IOS, you can quickly set up the main parameters and easily read the diagnostic data. This interface also makes it possible to easily duplicate the configuration on multiple devices or send it via file to the support service, which will analyse it remotely and modify it, if required.

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Gefran

*With headquarters in Provaglio di Iseo, Gefran is an Italian multinational group specialised in the design and production of sensors, industrial process control instruments and automation systems. Competence, flexibility and process quality are the distinguishing features of Gefran in the realization of tools and integrated systems for specific applications in different industrial fields, with a consolidated know-how in the fields of plastics, metal, paper and heat treatment. Technology, innovation and versatility represent the value-added features of Gefran solutions: sensors, automation platforms, regulators and power controllers designed to increase the efficiency of production processes, also in terms of energy saving. The Company has over **650** employees, including almost 400 in Italy and consolidated collaborations with national and international research centers and universities. Gefran operates on the main international markets through **10 production sites** in Italy, Brazil, China, India, Switzerland and the United States. In addition, there are 14 sales organisations and over **80 international distributors** for global sales support.*

Gefran is listed on the Milan Stock Exchange in the FTSE Italia STAR segment.

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