

Press Release

Advanced communication at field level:

Gefran presents the new KS-I industrial pressure probe with IO-Link interface

Provaglio d'Iseo, 19th July 2022. **Gefran** – the Italian multinational group specialised in the design and production of sensors, industrial process control systems, electric drives and automation components – is expanding its range of solutions dedicated to **Industry 4.0** by presenting the new **KS-I industrial pressure transmitter**, equipped with **IO-Link 1.1 digital output** and advanced **diagnostic** functions.

The **KS** family transducers, thanks to the sensitive element made using a proprietary film-deposited technology on a steel membrane, guarantee considerable resistance to mechanical shocks and vibrations and are immune to **electromagnetic noises**. In addition, the **IP67** degree of protection makes the entire range particularly suitable for a wide range of **hydraulic** and **pneumatic** applications.

One of the main innovations of the **KS-I** models is the ability to measure both pressure and temperature, with a sampling frequency of **1,000 times per second**. The **KS-I** probes are able to communicate with the **IO-Link Master** at **COM3** speed, equal to **230.4 Kbaud**, the highest available on IO-Link communication. Enhanced connectivity allows the recording of numerous acyclic information, such as the maximum values of pressure and temperature, the peaks reached and the number of hours of work. These are essential for predictive maintenance, from an **Industry 4.0** perspective.

With regard to the **cyclic** data, the presence of two **SSC switching logic signal channels**, which can be parameterised in detail, and two SIO physical outputs is of particular importance.

Finally, the sensors are available for measuring ranges from **4 bars to 1000 bars**, with an accuracy of $\pm 0.5\%FS$, including non-linearity, hysteresis, repeatability and zero and full-scale offset. Moreover, the extended process temperature range, from **-40°C to +125°C**, ensures excellent stability in the compensated field.

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*“Gefran strengthens the portfolio of IO-Link solutions to digitise the data collected at the field level and facilitate the transition of customers to Data Driven Company” comments **Edoardo Zilioli**, Gefran’s Sensors Marketing Manager at Gefran. “The automation sector increasingly lives on intelligent production processes. In this context, the sensors are called upon to ensure qualitatively more accurate measurements, with a view to optimising performance and preventing possible defaults”. He concludes “The KS-I industrial pressure probe meets these requirements, both in terms of high measurement accuracy and integration with all levels of factory automation”.*

Gefran

*Gefran is the Italian multinational group specialised in the design and production of sensors, industrial process control systems, electric drives and automation components. Competence, flexibility and process quality are the distinguishing factors 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 plastic, metal, paper, industrial lifting, heat treatment and lift. Technology, innovation and versatility represent the added value of the catalogue: electrical drives, sensors, automation platforms, regulators and power controllers able to increase the efficiency of production processes, also in terms of energy. The company now has over **800** employees, of which almost 500 in Italy (in the main offices of Provaglio d’Iseo and Gerenzano) and consolidated collaborations with national and international research centers and universities. Gefran operates on the main international markets through **6 production** subsidiaries in Brazil, China, Germany, India, Switzerland and the United States. In addition, there are sales subsidiaries in France, the United Kingdom, Belgium, Singapore 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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